



## 2008 Q3 RELIABILITY REPORT

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## 1.0 OVERVIEW OF CYPRESS SEMICONDUCTOR, INC. TOTAL QUALITY MANAGEMENT SYSTEM

This report summarizes Cypress Semiconductor Product Reliability for the period of the 3<sup>rd</sup> quarter of 2008. It includes data from devices fabricated at both internal Cypress and external subcontractor wafer fabrication and assembly facilities.

Cypress Semiconductor has established aggressive reliability objectives. The quality standard at Cypress is zero defects, driven by a culture requiring continuous improvement in quality and reliability.

Product reliability is assured by a total quality management system. The quality management system is described in detail in the Cypress Semiconductor Quality Manual (Cypress Semiconductor Document Number 90-00001). Key reliability-related programs of the total quality management system are: (1) design rule review and approval; (2) control of raw materials and vendor quality; (3) manufacturing statistical process controls; (4) "Maverick Lot" yield limits; (5) formal training and certification of manufacturing personnel; (6) qualification of new products and manufacturing processes; (7) continuous reliability monitoring; (8) formal failure analysis and corrective action; and (9) competitive benchmarking.

Product Reliability data is accumulated as a result of new product Qualification Test Plan activities (Cypress Semiconductor Document Number 25-00040) as well as from the Reliability Monitor Program (Cypress Semiconductor Document Number 25-00008). All reliability test samples are obtained from standard production material. Sample selection is based on generic product families. These generic products are designed with very similar design rules and manufactured from a core set of processes.

Reliability strategy requires that every failure that occurs during reliability testing be subjected to failure analysis (Cypress Semiconductor Document Number 25-00039) to determine the failure mechanism. Corrective action is then implemented to prevent future failures, resulting in continuous improvement in product reliability.

Sabbas Daniel  
Executive Vice-President, Quality

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## 2.0 PRODUCT RELIABILITY

In product stress testing, the main emphasis is on the useful life section of the bathtub curve. The test methodology used to predict the useful life period is a life test under a dynamic bias and at temperatures of 125°C or 150°C at the maximum specified use voltage of the product. The duration at these temperatures is 1,000 and 500 hours, respectively.

At Cypress, product reliability tests are performed as part of both the qualification processes and the standard reliability monitoring program. Each fab site and technology family from each product line is sampled. These reliability tests utilize the following stress factors to accelerate failure: temperature, current and /or voltage. The product reliability tests currently employed at Cypress include Early Failure Rate (EFR) and Long Term Failure Rate (LFR).

### 2.1 EARLY FAILURE RATE SUMMARY

Early Failure Rate Determination: High Temperature Operating Life testing (HTOL), for as long as 96 hours, is used to estimate device early failure rate. This stress will typically correspond to the first 2000 hours of device operation in a system environment. The remainder of the device's lifetime is characterized with extended LFR testing (See Section 3)

**Test** : High Temperature Operating Life Test (HTOL)  
**Conditions** : Dynamic Operating Conditions, VCC nominal + 15%, 150°C or 125°C.  
**Duration** : 48 hours HTOL at 150°C or 96 hours at 125°C.  
 (Refer to Appendix C for derating factor calculation)  
**Failure** : A failure is any device that fails to meet data sheet electrical requirements.

**Table 1. Early Failure Rate Summary**

Technology	Device Hours	# Failed	FIT Rate	PPM	Failure Mode
B53	35,318	0	Insufficient	0	None
C8	400,790	1	15	120	No visual defect-1
C9	3,847,162	33	27	413	No visual defect-1, Fab defect-32 (see Note 2)
L28	94,512	0	Insufficient	0	None
P26	14,352	0	Insufficient	0	None
R5	292,584	0	18	0	None
R7	526,091	0	10	0	None
R8	1,175,798	1	5	43	Fab defect-1 (see Note 3)
R9	3,192,486	2	3	19	No visual defect-1, Fab defect-1 (see Note 4)
R95	118,206	0	Insufficient	0	None
S4	1,207,014	2	8	84	Test hole-2 (see Note 5)
UMC 0.18	16,630	0	Insufficient	0	None
<b>Grand Total</b>	<b>10,920,943</b>	<b>39</b>	<b>11</b>	<b>145</b>	<b>See above</b>

Notes: 1) Insufficient data – interpret as insufficient accumulated life-time hours to project a 60%confidence bound for a zero-fails sample.  
 2) CARs 200813026 and 200840004 – Fab process improvement.  
 3) CAR 200838014 – Fab process improvement.  
 4) CAR 200847012 – Fab process improvement.  
 5) CAR 200813030 – Test program improvement.

## 2.2 LONG TERM FAILURE RATE SUMMARY

A High Temperature Operating Life test (HTOL) is used to estimate long-term reliability. By operating the devices at accelerated temperature and voltage, hundreds of thousands of use hours can be compressed into hundreds of test hours.

<b>Test</b>	:	High Temperature Operating Life Test (HTOL)
<b>Conditions</b>	:	Dynamic Operating Conditions, VCC nominal +15% 150°C or 125°C.
<b>Duration</b>	:	A minimum of 80 hours at 150°C or 168 hours at 125°C Generally 500 hours at 150°C or 1000 hours at 125°C. (Refer to Appendix C for derating factor calculation)
<b>Failure</b>	:	A failure is any device that fails to meet data sheet electrical requirements.
<b>Fit Rate</b>	:	Derated to 55° C ambient, with 60% upper confidence bound for 0 failures, Ea =0.7ev (Refer to Appendix A)

**Table 2. Long Term Failure Rate Summary**

Technology	Device Hours	# Failed	FIT Rate	Failure Mode
B53	342,013	0	16	None
C8	950,244	0	6	None
C9	1,152,354	0	5	None
L28	208,000	0	26	None
L8	52,109	0	Insufficient	None
P26	125,580	0	Insufficient	None
R5	259,160	0	21	None
R7	152,636	0	35	None
R8	652,758	0	8	None
R9	851,527	0	6	None
R95	1,347,179	0	4	None
S4	3,004,988	0	2	None
TSMC025	36,632	0	Insufficient	None
UMC 0.18	49,585	0	Insufficient	None
<b>Grand Total</b>	<b>9,184,765</b>	<b>0</b>	<b>1</b>	<b>None</b>

Note: Insufficient data – interpret as insufficient accumulated life-time hours to project a 60% confidence bound for a zero-fails sample.

## 2.3 DATA RETENTION SUMMARY

A high-temperature, non-biased bake test ensures that data retention meets established reliability goals. The devices are baked without bias at either 165°C for plastic-packaged devices, or 250°C for hermetically-packaged devices. DRET is performed on programmed devices to establish a failure rate for cell charge loss. The reliability at nominal system ambient temperature is related to the failure rate at elevated temperatures through the Arrhenius equation.

**Test** : Data Retention Testing (DRET)  
**Conditions** : High temperature non-biased bake  
**Duration** : A minimum of 500 hours at 150°C or 168 hours at 165°C  
 Generally 1000 hours at 150°C or 500 hours at 165°C.  
**Failure** : Devices are programmed with a worst case program pattern before being subjected to data retention testing. The memory pattern is verified at each readpoint and any device with altered bits is classified a failure.

**Table 3. Data Retention Summary**

Technology	Sample Size	Device-Hours	# Failed	PPM	Failure Mode
L28	154	77,000	0	0	None
S4	5,632	2,553,091	0	0	None
<b>Grand Total</b>	<b>5,786</b>	<b>2,630,091</b>	<b>0</b>	<b>0</b>	<b>None</b>

*Note: Insufficient data – interpret as insufficient accumulated life-time hours to project a 60%confidence bound for a zero-fails sample.*

### 3.0 PACKAGE RELIABILITY

Package-level reliability testing refers to the assessment of the overall reliability of the device in packaged form. This consists of subjecting packaged samples to reliability tests that expose the various sample sets to different stress conditions, after which the samples are tested for any degradation.

At Cypress, package reliability tests are performed as part of the qualification processes and as part of the standard reliability monitoring program. The reliability test employed is chosen based on the failure mechanism, as different stress tests accelerate different failure mechanisms. These reliability tests utilize one or more of the following stress factors to accelerate failure: temperature, moisture or humidity, current, voltage, and pressure. The package reliability tests currently employed at Cypress include Pressure Cooker Test (PCT), Highly Accelerated Stress Test (HAST), Temperature Cycle Test (TCT), and High Temperature Storage (HTS). Figure 1 shows the Cypress package reliability stress flow.

Surface-mount samples are preconditioned per Jedec Std JESD22-A113 prior to package reliability testing. This is required prior to TCT, PCT and HAST testing. Preconditioning simulates the board mounting process of the customer. It normally consists of a temperature cycle to simulate exposure to different temperatures during shipping, a bake to drive away the moisture inside the packages of the samples, a soak to drive a controlled amount of moisture into the package, and three cycles of convection reflow. Packages are soaked and reflowed based on their shipping moisture sensitivity classification. The samples are tested (acoustic and electrical) after preconditioning, failures from which are considered as preconditioning failures and not reliability failures. Preconditioning failures should be taken seriously, since these imply that the samples are not robust enough to withstand the board mounting process.

Cypress conducts all major classes of package reliability tests on each of its package families. The package characteristics and assembly locations are the primary considerations when grouping packages into package families. A package family may consist of a group of 44-lead to 144-lead TQFP packages manufactured at a particular manufacturing location.

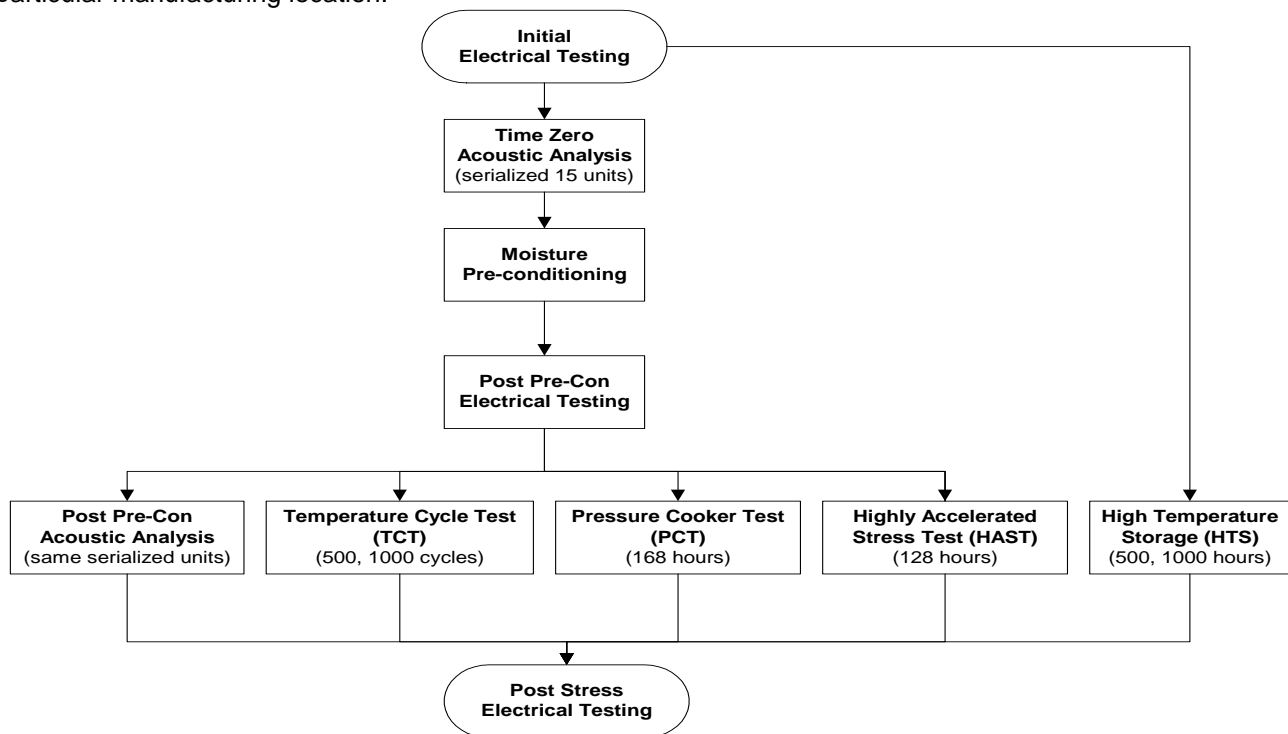


Figure 1. Cypress Package Reliability Stress Flow



### 3.1 PRESSURE COOKER TEST (PCT)

The Pressure Cooker Test is a highly accelerated packaging stress test used to ensure environmental durability of epoxy-packaged parts. Passivation cracks, ionic contamination, and corrosion susceptibility are all accelerated by this stress.

- Conditions** : 15 PSIG, 121°C, No bias, for a minimum of 168 hours.
- Pre-Conditioning** : 5 cycles Temperature Cycle -65/+150, 24 hr Bake 125°C, Moisture loading to qualified MSL level
- Failure Modes** : Parametric shifts, high leakage, and/or catastrophic
- Failure Mechanism** : Die corrosion or contaminants such as foreign material on or within the package materials. Poor package sealing.

**Table 4. Pressure Cooker Test Failure Rate Summary**

Package	Sample Size	# Failed	Defects %	Failure Mode
FBGA (0.75-0.8, 0.3mm)	397	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	311	0	0	None
FBGA (1.0)	429	0	0	None
FLIPCHIP CSP (Pb-Free)	691	0	0	None
PBGA (with Heat Spreader)	400	18	4.50%	Cu Bridging-18 (see Note 1)
PDIP	80	0	0	None
PDIP (Pb-Free)	213	0	0	None
PLCC	320	0	0	None
PLCC (Pb-Free)	240	0	0	None
PQFP (Pb-Free)	240	0	0	None
QFN (0.4mm, Saw Type, Pb-free)	77	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	721	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	795	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	395	0	0	None
QFN (Punch Type, Pb-Free)	640	0	0	None
QFN (Saw Type, Pb-free)	467	0	0	None
QSOP (Pb-Free)	238	0	0	None
RTSOP (Pb-free)	81	0	0	None
SNC (Pb-Free)	399	0	0	None
SOIC	397	0	0	None
SOIC (J-Lead)	234	0	0	None
SOIC (J-Lead, Pb-Free)	718	0	0	None
SOIC (Pb-Free)	3,352	0	0	None
SSOP (Pb-Free)	2,019	0	0	None
TQFP	320	0	0	None
TQFP (10mm X 10mm)	80	0	0	None
TQFP (Pb-Free)	1,512	0	0	None
TQFP (Thermal)	240	0	0	None
TQFP (Thermal, Pb-Free)	50	0	0	None
TSOP (Pb-free)	773	0	0	None
EXPOSED TSOP (Pb-free)	80	0	0	None
TSOP I (Pb-Free)	399	0	0	None
TSOP II	80	0	0	None
TSOP II (Pb-Free)	1,114	0	0	None
TSSOP	557	0	0	None
TSSOP (Pb-Free)	1,163	0	0	None
VFBGA (0.75-0.8, 0.3mm)	80	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	2,621	0	0	None
<b>Grand Total</b>	<b>22,923</b>	<b>18</b>	<b>0.08%</b>	<b>See above</b>

Notes: 1) CAR 200837011 – Assembly process improvement.



### 3.2 HIGHLY ACCELERATED STRESS TEST (HAST)

Cypress uses HAST to accelerate temperature, humidity, bias failure mechanisms. This change was necessary because our package reliability had improved to the point where the old 85°C/85% R.H. temperature-humidity-bias testing would not induce failures. Failures are necessary to judge progress and compare packaging changes. HAST testing has been shown to be at least twenty times more accelerated than 85°C/85% R.H. temperature-humidity-bias testing.

- Conditions** : Present Conditions: 130°C / 85% RH minimum power dissipation, for a minimum of 128 hours.
- Pre-Conditioning** : 5 cycles Temperature Cycle –65/+150, 24 hr Bake 125°C, Moisture loading to qualified MSL level
- Failure Modes** : Parametric shifts, high leakage, and/or catastrophic
- Failure Mechanism** : Die corrosion or contaminants such as foreign material on or within the package materials. Poor package sealing.

**Table 5. Highly Accelerated Stress Test (HAST) Failure Rate Summary**

Package	Sample Size	# Failed	Defects %	Failure Mode
FBGA (0.75-0.8, 0.3mm)	554	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	354	0	0	None
FBGA (1.0)	376	0	0	None
FLIPCHIP CSP (Pb-Free)	304	0	0	None
PBGA (with Heat Spreader)	79	0	0	None
PDIP	80	0	0	None
PDIP (Pb-Free)	314	0	0	None
PLCC	239	0	0	None
PLCC (Pb-Free)	117	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	701	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	708	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	276	0	0	None
QFN (Punch Type, Pb-Free)	791	0	0	None
QFN (Saw Type, Pb-free)	353	0	0	None
QSOP (Pb-Free)	80	0	0	None
RTSOP (Pb-free)	155	0	0	None
SNC (Pb-Free)	320	0	0	None
SOIC	474	0	0	None
SOIC (J-Lead)	225	0	0	None
SOIC (J-Lead, Pb-Free)	633	0	0	None
SOIC (Pb-Free)	2,462	0	0	None
SSOP (Pb-Free)	974	0	0	None
TQFP	237	0	0	None
TQFP (10mm X 10mm)	156	0	0	None
TQFP (Pb-Free)	911	0	0	None
TQFP (Thermal)	119	0	0	None
TQFP (Thermal, Pb-free)	92	0	0	None
TSOP (Pb-free)	753	0	0	None
TSOP I (Pb-Free)	353	0	0	None
TSOP II	80	0	0	None
TSOP II (Pb-Free)	673	0	0	None
TSSOP	475	0	0	None
TSSOP (Pb-Free)	770	0	0	None
VFBGA (0.75-0.8, 0.3mm)	79	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	689	0	0	None
<b>Grand Total</b>	<b>15,956</b>	<b>0</b>	<b>0.00%</b>	<b>None</b>





### 3.3 TEMPERATURE CYCLE TEST (TC)

Differences in thermal expansion coefficients are accentuated by cycling devices through temperature extremes. If the materials do not expand and contract equally, large stresses can develop. The Temperature Cycle test stresses mechanical integrity by exposing a device to alternating temperature extremes. Weakness and thermal expansion mismatches in die interconnections, die attach, and wire bonds are often detected with this accelerated test.

**Condition** : MIL-STD-883D, Method 1010, Condition B, -55°C to 125°C  
MIL-STD-883D, Method 1010, Condition C, -65°C to 150°C  
(Refer to Appendix C for derating factor calculation)

**Pre-Conditioning** : 5 cycles Temperature Cycle -65/+150, 24 hr Bake 125°C, Moisture loading to qualified MSL level

**Duration** : 500 cycles minimum at Condition C,  
1000 cycles minimum at Condition B

**Failure Mode** : Parametric shifts and catastrophic failures

**Failure Mechanism** : Wire bond, cracked or lifted die and package failure.

**Table 6. Temperature Cycling Failure Rate Summary**

Package	Sample Size	# Failed	Defects %	Failure Mode
FBGA (0.75-0.8, 0.3mm)	797	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	936	0	0	None
FBGA (1.0-1.27)	2,677	0	0	None
FBGA (1.0-1.27, Pb-free)	730	0	0	None
FLIPCHIP CSP (Pb-Free)	2,115	0	0	None
PBGA (with Heat Spreader)	1,119	0	0	None
PDIP	155	0	0	None
PDIP (Pb-Free)	1,017	1	0.10%	Lifted ball bond-1 (see Note 1)
PLCC	642	0	0	None
PLCC (Pb-Free)	480	0	0	None
PQFP (Pb-free)	598	0	0	None
QFN (Open Cavity, Pb-free)	230	0	0	None
QFN (0.4mm, Saw Type, Pb-free)	465	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	4,994	8	0.16%	Broken wedge-8 (see Note 2)
QFN (0.6mm, Saw Type, Pb-Free)	2,679	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	2,996	0	0	None
QFN (Punch Type, Pb-Free)	2,076	0	0	None
QFN (Saw Type, Pb-free)	1,638	0	0	None
QSOP (Pb-Free)	544	0	0	None
RTSOP (Pb-free)	238	0	0	None
SNC (Pb-Free)	1,250	0	0	None
SOIC	766	0	0	None
SOIC (J-Lead)	545	0	0	None
SOIC (J-Lead, Pb-Free)	2,364	0	0	None
SOIC (Pb-Free)	9,095	10	0.11%	Cut wedge-10 (see Note 3)
SSOP (Pb-Free)	10,153	5	0.05%	Cut wedge-4 (see Note 3), PO Metal Damage-1
TQFP	868	0	0	None
TQFP (10mm X 10mm)	148	0	0	None
TQFP (Pb-Free)	4,949	47	0.95%	Cut wedge-47 (see Note 4)
TQFP (Thermal)	478	0	0	None
TQFP (Exposed Pad, Pb-free)	406	0	0	None
TSOP (Pb-free)	2,287	0	0	None
EXPOSED TSOP (Pb-free)	150	0	0	None
TSOP I (Pb-Free)	800	0	0	None
TSOP II	205	0	0	None
TSOP II (Pb-Free)	3,777	0	0	None
TSSOP	1,108	0	0	None
TSSOP (Pb-Free)	2,739	0	0	None
VFPGA (0.75-0.8, 0.3mm)	314	0	0	None
VFPGA (0.75-0.8, 0.3mm, Pb-Free)	8,996	0	0	None
<b>Grand Total</b>	<b>78,524</b>	<b>71</b>	<b>0.09%</b>	<b>See above</b>

- Notes: 1) CAR 200827014 – Implement 10grams pellet weight.  
2) CAR 200831014 – Convert to Saw Singulation process.  
3) CAR 200824016 – Implement 90sec cure time.  
4) CAR 200752014 – root cause analysis in-progress.

### 3.4 HIGH TEMPERATURE STORAGE (HTS)

A high-temperature, non-biased bake test is performed to determine the effect on devices of long-term storage at elevated temperatures without any electrical stresses applied. The devices are baked without bias at either 150°C or 165°C for plastic-packaged devices. The reliability at nominal system ambient temperature is related to the failure rate at elevated temperatures through the Arrhenius equation.

**Test** : High Temperature Storage (HTS)  
**Conditions** : High temperature non-biased bake  
**Duration** : A minimum of 500 hours tested up to 1000 hours at 150°C  
**Failure Mode** : Parametric shifts and catastrophic failures  
**Failure Mechanism** : Lifted ball bonds due to gross intermetallic growth

**Table 7. High Temperature Storage Failure Rate Summary**

Package	Sample Size	# Failed	Defects %	Failure Mode
FBGA (0.75-0.8, 0.3mm)	798	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	394	0	0	None
FBGA (1.0)	1,699	0	0	None
FBGA (1.0, Pb-free)	160	0	0	None
FLIPCHIP CSP (Pb-Free)	360	0	0	None
PBGA (with Heat Spreader)	640	0	0	None
PDIP	160	0	0	None
PDIP (Pb-Free)	616	0	0	None
PLCC	638	0	0	None
PLCC (Pb-Free)	480	0	0	None
PQFP (Pb-free)	478	0	0	None
QFN (Open Cavity, Pb-free)	462	0	0	None
QFN (0.4mm, Saw Type, Pb-free)	77	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	1,410	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	1,436	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	560	0	0	None
QFN (Punch Type, Pb-Free)	880	0	0	None
QFN (Saw Type, Pb-free)	622	0	0	None
QSOP (Pb-Free)	558	0	0	None
RTSOP (Pb-free)	320	0	0	None
SNC (Pb-Free)	795	0	0	None
SOIC	632	0	0	None
SOIC (J-Lead)	391	0	0	None
SOIC (J-Lead, Pb-Free)	1,508	0	0	None
SOIC (Pb-Free)	5,345	0	0	None
SSOP (Pb-Free)	2,956	0	0	None
TQFP	639	0	0	None
TQFP (10mm X 10mm)	160	0	0	None
TQFP (Pb-Free)	3,367	0	0	None
EXPOSED TSOP (Pb-free)	160	0	0	None
TSOP (Pb-free)	1,614	0	0	None
TSOP I (Pb-Free)	800	0	0	None
TSOP II	160	0	0	None
TSOP II (Pb-Free)	1,917	0	0	None
TSSOP	1,118	0	0	None
TSSOP (Pb-Free)	1,269	0	0	None
VFBGA (0.75-0.8, 0.3mm)	320	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	3,947	0	0	None
<b>Grand Total</b>	<b>39,846</b>	<b>0</b>	<b>0.00%</b>	<b>None</b>

## APPENDIX A: FAILURE RATE CALCULATION

### Thermal Acceleration Factors

Acceleration factors (AF) for thermal stresses (Early Failure Rate, Latent Failure Rate, Data Retention and High Temperature Storage) are calculated from the Arrhenius equation)

$$AF = \exp \left( \frac{E_a}{k} \left( \frac{1}{T_u} - \frac{1}{T_t} \right) \right)$$

where :

$E_a$  = Activation Energy of the defect mechanism

$K$  = Boltzmann's constant =  $8.62 \times 10^{-5}$  eV/Kelvin

$T_t$  is the junction temperature of the device under stress

$T_u$  is the junction temperature of the device at use conditions

While there is no substitute for experimentally determining the activation energy, obtaining this information is very difficult because few devices fail stress tests. In the absence of experimental data, the following literature values are used.

## APPENDIX A: FAILURE RATE CALCULATION (cont.)

### Temperature-Humidity Acceleration Factors

Cypress estimates acceleration factors for temperature-humidity stresses (Pressure Cooker Test and Highly Accelerated Stress Test) from a model developed by Hallberg and Peck ("Quality and Reliability Engineering International". Vol. 7, 1991).

$$AF = \left( \frac{RH_t}{RH_u} \right)^{-3} \exp \frac{E_a}{k} \left( \left( \frac{1}{T_u} - \frac{1}{T_t} \right) \right)$$

where :

$T_u$  = use environment junction temperature (°K)  
 $T_t$  = test environment junction temperature (°K)  
 $E_a$  = failure mechanism activation energy (0.9 for corrosion)  
 $k$  = Boltzman's Constant ( $8.62 \times 10^{-5}$  eV/°Kelvin)  
 $RH_u$  = use environment relative humidity  
 $RH_t$  = test environment relative humidity  
 $AF$  = acceleration factor

The Hallberg and Peck model requires the stress junction temperature and relative humidity as well as the use temperature and relative humidity. To estimate the use relative humidity, we assume that the device room temperature is 35 °C (95 °F) and the room relative humidity is 100%. From any Handbook of Chemistry and Physics, the vapor pressure of water VP (water) at 35 °C is 41.175 mm Hg. If we assume that the device will operate with a junction temperature of 70 °C (VP (water) at 70 °C is 233.7 mm Hg), the junction relative humidity (RHj) is

$$RHj = 100\% \left( \frac{41.175}{233.7} \right) = 17.6\%$$

The operating conditions of the devices are then 70 °C and 17.6% relative humidity.

Our Pressure Cooker Test (PCT) submits the devices to a temperature of 121 °C and 100% relative humidity. Using the Hallberg and Peck model, the acceleration factor for the PCT stress can be calculated:

$$AF = \left( \frac{17.6}{100} \right)^{-3} \exp \frac{0.9}{k} \left( \left( \frac{1}{343} - \frac{1}{394} \right) \right) = 9,433$$

## APPENDIX A: FAILURE RATE CALCULATION (cont.)

The acceleration factor for HAST is calculated similarly, except that junction temperature heating effects must be included when estimating the relative humidity at the die surface. Assuming an average junction temperature rise of 5°C, the relative humidity at the die surface during 130 C HAST testing can be calculated.

$$VP (130^{\circ}\text{C}) = 2026.10 \text{ mm Hg}$$

$$VP (135^{\circ}\text{C}) = 2347.26 \text{ mm Hg}$$

$$RH_j = 85\% \left( \frac{2026.10}{2347.26} \right) = 73.4\%$$

$$AF = \left( \frac{17.6}{73.4} \right)^{-3} \exp \frac{0.9}{k} \left[ \left( \frac{1}{343} - \frac{1}{408} \right) \right] = 9,261$$

Similarly, for 140°C HAST testing,

$$VP (140^{\circ}\text{C}) = 2710.92 \text{ mm Hg}$$

$$VP (145^{\circ}\text{C}) = 3116.76 \text{ mm Hg}$$

$$RH_j = 85\% \left( \frac{2710.92}{3116.76} \right) = 73.9\%$$

$$AF = \left( \frac{17.6}{73.9} \right)^{-3} \exp \frac{0.9}{k} \left[ \left( \frac{1}{343} - \frac{1}{418} \right) \right] = 17,433$$



## APPENDIX A: FAILURE RATE CALCULATION (cont.)

### Failure Rate Calculation

For all but LFR test, Cypress reports the failure rate in terms of ppm. Early life reliability is reported in terms of ppm defective expected during the first year of use under typical use conditions. No upper confidence bound will be used for this estimate. The ppm defective is the ratio of the number of rejects to the number of samples and expressed in ppm.

$$PPM = \left( \frac{\text{Total Rejects}}{\text{Total Samples}} \right) \times 1,000,000$$

Intrinsic, or later life reliability, shall be reported using the exponential model, in terms of FITs, with a 60% upper confidence bound for 0 failures or the demonstrated FIT estimate in the case there are failures.

$$FR (FIT) = \chi^2_{\alpha, 2n+2} / (2 * AF * Device Hours) * 10^9$$

where:

$\chi^2_{\alpha, 2n+2}$  = Chi square factor for  $2n + 2$  degrees of freedom at 60% confidence level.

$n$  = number of failure.

AF = Thermal Acceleration factor and is calculated per Arrhenius equation assuming a 0.7eV activation energy.

Voltage acceleration factor is not included in failure rate calculation even though voltage acceleration may be used during stress. Typical use conditions shall be considered to be 55°C ambient with a 15°C temperature rise at the junction. Thus, use junction temperature is 70°C.

## APPENDIX B: TEMPERATURE CYCLING STRESS MODELS

Two acceleration factor (AF) models are used to model temperature cycle failures. The model proposed by Zelenka [1] and others uses the epoxy molding temperature ( $T_{\text{mold}} = 170 \text{ }^\circ\text{C}$ ) and the minimum temperature reached during temperature cycling, ( $T_{\text{min}}$ ).

$$AF_{\text{brittle}} = \left( \frac{T_{\text{mold}} - T_{\text{min, stress}}}{T_{\text{mold}} - T_{\text{min, stress}}} \right)^m$$

The model constant,  $m$ , is experimentally calculated for each failure mechanism. The acceleration factor is labeled 'brittle' because the derivation of this equation assumes brittle fracture mechanics. Basically, the model assumed that cracks advance a little every time the maximum stress is reached. The maximum stress is assumed to be proportional to the difference in temperature between the minimum and maximum stress temperatures. For plastic-encapsulated devices, the stress is minimum during molding, ( $T_{\text{mold}}$ ), and maximum during the lowest temperature reached during temperature cycling, ( $T_{\text{min}}$ ).

The model constant,  $m$ , is a function of the failure mechanism.

Thin film cracking	$m = 12$ (Blish and Vaney [2])
Al/Au Intermetallic fractures	$m = 4$
Chip-out (cratering) bond failures	$m = 7$ (Dunn and McPherson [3])

For ductile materials, dislocation movement dominates the fracture mechanics and a different model is used.

The second, and most widely accepted model, uses the difference between the minimum and maximum temperatures during temperature cycle testing ( $T_{\text{min}}$  and  $T_{\text{max}}$ ) to calculate an acceleration factor.

$$AF_{\text{ductile}} = \left( \frac{T_{\text{max, stress}} - T_{\text{min, stress}}}{T_{\text{max, use}} - T_{\text{min, use}}} \right)^m$$

The model constant, 'm', is again experimentally calculated for each failure mechanism.

Coffin and Manson [4] developed this model from empirical observations of metal fatigue. In ductile materials, if the applied stress is high enough, dislocations are produced. At the high temperature condition of the temperature cycling stress, dislocations are forced towards one metal surface. At the low temperature, the dislocations try to glide back to their original position, but many cannot because they became entangled with other dislocations. After many cycles, these tangles grow until cracking, and finally failure, occurs. Both minimum and maximum temperatures are important, because both contribute to dislocation movement and entanglement. This model is recommended for any failures involving ductile materials. Model constants for ductile failure follow.

Wirebond breakage	$m = 5.16$ (Cypress experimentation)
Solder Fatigue	$m = 2$ (Blish and Vaney [2])

## APPENDIX B: TEMPERATURE CYCLING STRESS MODELS (cont.)

Our commercial devices are specified to operate between 0°C and 70 °C. Using this information, the acceleration factor, AF, between use and Military Condition C stress testing (-65°C to 150°C), for the brittle, thin film cracking failure mechanism and ductile, wire bond breakage failure mechanism can be calculated.

$$\text{AF brittle} = \left( \frac{170 - (-65)}{170 - 0} \right)^{12} = 49$$

$$\text{AF ductile} = \left( \frac{150 - (-65)}{70 - 0} \right)^{5.16} = 327$$

### References:

- [1] R.L. Zelenka, IEEE/IRPS, pp. 30-34, 1991
- [2] R.C. Blish and P.R. Vaney, IEEE/IRPS, pp 22-29, 1991
- [3] C.F. Dunn and J.W. McPherson, IEEE/IRPS, pp 252-258, 1990
- [4] S.S. Manson, thermal Stress and Low-Cycle Fatigue, (Robert Krieger : Malabar, Florida), 1981.



## APPENDIX C: EQUIVALENCE OF DIFFERENT STRESS TEST CONDITIONS

During stress testing, more than one set of test conditions were used. To account for this difference, stress test hours or cycles at the lower stress condition were derated and then added to the total for the most severe stress test condition.

### Dynamic (HTOL)

HTOL (EFR/LFR) test is performed at 150 °C and 125 °C. Using the Arrhenius equation (Appendix A) and an activation energy of 0.7 eV, the derating factor, DF, between 125°C and 150 °C can be calculated.

$$DF \text{ (between 125C and 150C)} = \exp \left( \frac{0.6}{k} \left( \frac{1}{150 + 15 + 273} - \frac{1}{125 + 15 + 273} \right) \right) = 0.326$$

The derating calculation assumes a 15 °C rise due to junction heating.

### Temperature Cycling

Two different temperature cycling conditions were used to measure reliability, -65°C to 150°C and -55°C to 125°C. Using the brittle failure mechanism model with  $m = 12$ , the derating factor between -65°C to 150°C and -55°C to 125°C is calculated.

$$DF = \left( \frac{170 - (-55)}{170 - (-65)} \right)^{12} = 1.685$$

Using the ductile failure mechanism model with  $m = 5.16$ , the derating factor between -65°C to 150°C and -55°C to 125°C is obtained.

$$DF = \left( \frac{125 - (-55)}{150 - (-65)} \right)^{5.16} = 2.501$$

### HAST

The derating factor between two HAST conditions, 140 °C / 85%RH and 130 °C / 85% RH is simply the ratio of the acceleration factors (See Appendix A)

$$DF = \frac{9,261}{17,433} = 0.531$$



## APPENDIX D: RELIABILITY DATA

FROM: 9/29/2007  
TO: 9/28/2008

### Summary Detail -- EFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS	
<b>B53</b>													
	DCD	MR081052	R1	CY7B994V-2AXI	125	4.2	96	96	299	0			
	DCD	MR081073	R1	CY7B993V-5AC	125	4	96	96	300	0			
	CCD	MR083072	R1	CYRF6936-40LFXC	125	3.8	96	96	100	0			
<b>Summary for Technology: B53</b>			<b>3</b>	<b>records</b>							<b>699</b>	<b>0</b>	
<b>Sum</b>										<b>699</b>	<b>0</b>		
<b>C8</b>													
	DCD	071005	R1A	CYWB0224ABM-BVXIES	125	2.5	96	96	434	0			
	DCD	071005	R1A	CYWB0224ABM-BVXIES	125	2.5	96	96	383	0			
	DCD	071005	R1B	CYWB0224ABS-BVXIES	125	2.5	96	96	435	0			
	DCD	071005	R1B	CYWB0224ABS-BVXIES	125	2.5	96	96	123	1	071005-1AE1	No visual defect	
	DCD	071005	R1C	CYWB0224ABS-BVXIES	125	2.5	96	96	428	0			
	DCD	071005	R1D	CYWB0224ABM-BVXIES	125	2.5	96	96	204	0			
	DCD	071005	R1E	CYWB0224ABS-BVXIES	125	2.5	168	168	147	0			
	DCD	071005	R1E	CYWB0224ABS-BVXIES	125	2.5	168	168	272	0			
	DCD	071005	R1F	CYWB0224ABM-BVXIES	125	2.5	96	96	100	0			
	DCD	071005	R1F	CYWB0224ABM-BVXIES	125	2.5	96	96	329	0			
	DCD	072103	R2	CY7C68003-24LQXIEST	150	2.07	48	48	246	0			
	DCD	072103	R2A	CY7C68003-24LQXI	150	2.07	48	48	57	0			
	DCD	072103	R2A(1)	CY7C68003-24LQXI	150	2.07	48	48	244	0			
	DCD	072103	R2A(2)	CY7C68003-24LQXI	150	2.07	48	48	244	0			
	DCD	072103	R2A(3)	CY7C68003-24LQXI	150	2.07	48	48	204	0			
	DCD	072103	R2A(4)	CY7C68003-24LQXI	150	2.07	48	48	9	0			
	DCD	072207	R3	CYWB0124ABX-FDXIT	125	3.8	96	96	127	0			
	DCD	072207	R3(1)	CYWB0124ABX-FDXIT	125	3.8	96	96	129	0			
	DCD	072207	R3(2)	CYWB0124ABX-FDXIT	125	3.8	96	96	129	0			
	DCD	072207	R3(3)	CYWB0124ABX-FDXIT	125	3.8	96	96	39	0			
	DCD	072404	R1	CYWB0124AB-BVXI	125	3.8	96	96	390	0			
	DCD	072404	R1A	CYWB0124AB-BVXI	125	3.8	96	96	427	0			
	DCD	072404	R2A	CYWB0124AB-BVXI	125	3.8	96	96	109	0			
	DCD	072404	R2A	CYWB0124AB-BVXI	125	3.8	96	96	159	0			
	DCD	072404	R2B	CYWB0124AB-BVXI	125	3.8	96	96	108	0			
	DCD	072404	R2B	CYWB0124AB-BVXI	125	3.8	96	96	162	0			
	DCD	080604	R1	CYWB0124AB-BVXI	125	2.5	96	96	388	0			
	DCD	080604	R1	CYWB0124AB-BVXI	125	2.5	96	96	532	0			
	DCD	080604	R1	CYWB0124AB-BVXI	125	2.5	120	24	395	0			
	DCD	080604	R1	CYWB0124AB-BVXI	125	2.5	120	24	192	0			
	CCD	MR074065	R1	CY7C68013A-56PVXC	125	3.8	96	96	300	0			
	CCD	MR081056	R1	CY7C68300C-56PVXC	125	3.8	96	96	300	0			
	CCD	MR081075	R1	CY7C65630-56LFXA	125	3.8	72	24	3	0			

CCD	MR081075	R1A	CY7C65630-56LFXA	125	3.8	72	24	28	0
CCD	MR081075	R2	CY7C65630-56LFXA	125	3.3	72	24	55	0
CCD	MR081075	R2A	CY7C65630-56LFXA	125	3.3	72	24	78	0
CCD	MR081075	R3	CY7C65630-56LFXA	125	3.3	72	24	29	0
CCD	MR081075	R4	CY7C65630-56LFXA	125	3.3	72	24	61	0
DCD	MR083054	R1	CG6882AMT	125	3.8	96	96	300	0

**Summary for Technology: C8**

**39 records**

**Sum** **8299** **1**

**C9**

MID	080305	R1A	CY7C1041DV33	150	3.77	48	48	5306	0
MID	080305	R1C	CY7C1041DV33	150	3.77	48	48	2072	0
MID	080602	R5A	CY7C1061DV33	125	3.77	96	96	473	0
MID	080602	R5B	CY7C1061DV33	125	3.77	96	96	466	0
MID	080602	R5C	CY7C1061DV33	125	3.77	96	96	476	0
MID	080602	R6A	CY7C1061DV33	125	3.77	96	96	918	0
MID	080602	R6B	CY7C1061DV33	125	3.77	96	96	217	0
MID	080602	R6C	CY7C1061DV33	125	3.77	96	96	444	0
MID	080603	R1A	CY7C1021DV33	150	3.77	48	48	3923	0
MID	080603	R1B	CY7C1021DV33	150	3.77	48	48	3904	2
MID	080603	R1C	CY7C1021DV33	150	3.77	48	48	3893	0
MID	082106	R1	CY7C1021DV33	150	3.7	48	48	3910	0
MID	082106	R2	CY7C1021DV33	150	3.7	48	48	3921	0
MID	082106	R3	CY7C1021DV33	150	3.7	48	48	3937	1
MID	082107	R1A	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1393	0
MID	082107	R1B	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1387	0
MID	082107	R1C	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1389	0
MID	082107	R2A	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1293	0
MID	082107	R2B	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1292	0
MID	082107	R2C	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1232	0
MID	082107	R3A	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1350	0
MID	082107	R3B	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1334	0
MID	082107	R3C	CY7C1041DV33-10ZSXIT	150	4.5	48	48	1375	0
MID	083602	R1	CY08632	125	2.07	96	96	180	0
MID	083602	R1	CY08632	125	2.07	96	96	347	0
MID	MR081072	R1	CY7C1061DV33	125	3.77	96	96	473	0
MID	MR082045	R1	CY7C1021DV30-10ZSXI	150	3.77	48	48	999	0
MID	MR082045	R2	CY7C1021DV30-10ZSXI	150	3.77	48	48	999	0
MID	MR082045	R3	CY7C1021DV33-10ZSXI	150	3.77	48	48	6748	0
MID	MR082045	R3A	CY7C1021DV33-10ZSXI	150	3.77	48	48	6748	0
MID	MR082045	R4	CY7C1021DV33-10ZS	150	0	48	48	5390	1
MID	MR083057	R1	CY7C1041DV33-10ZSXI	150	3.77	48	48	12150	29

080603-1B1E LITR short

082106-3E1 No physical anomaly

MR082045-4E1 No physical anomaly  
Tungsten Short

**Summary for Technology: C9**

**32 records**

**Sum** **79939** **33**

**L28**

DCD	081704	R1G	CY2309ESXI-1H	150	3.8	48	48	504	0
DCD	081704	R1H	CY2309ESXI-1H	150	3.8	48	48	159	0
DCD	081704	R1H	CY2309ESXI-1H	150	3.8	48	48	504	0
DCD	081704	R1I	CY2309ESXC-1H	150	3.8	48	48	504	0
DCD	MR082039	R1	CY2292FZX	150	3.8	48	48	298	0

**Summary for Technology: L28**

**5 records**

**Sum** **1969** **0**

**P26**

CCD	MR073062	R1	CY7C63723-PXC	150	5.5	48	48	299	0
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**Summary for Technology: P26**

**1 records**

**Sum** **299** **0**

**R5**

MID	080803	R1	CY2305CSXI-1H	150	3.8	24	24	3597	0
MID	080803	R4	CY2305CSXI-1H	150	3.8	24	24	1939	0
MID	080803	R4A	CY2305CSXI-1H	150	3.8	24	24	1936	0
MID	080803	R5	CY2305CSXA-1H	150	3.8	24	24	4000	0
CCD	MR081024	R1	CY7C67300-100AXI	150	3.8	48	48	298	0
CCD	MR081076	R1	CY7C67300-100AXA	150	3.8	36	36	25	0
CCD	MR081076	R3	CY7C67300-100AXA	150	3.3	36	36	4	0
CCD	MR081076	R4	CY7C67300-100AXA	150	3.3	36	36	53	0

**Summary for Technology: R5**

**8 records**

**Sum** **11852** **0**

**R7**

MID	075101	R1	CY7C1011CV33-10ZXA	150	2.3	48	48	3500	0
MID	075101	R2	CY7C1011CV33-10ZXA	150	2.3	48	48	3498	0
MID	075101	R3	CY7C1011CV33-10ZXA	150	2.3	48	48	3498	0
MID	MR081023	R1	CY62137CVSL-70BAIT	125	3.8	96	96	299	0
MID	MR083070	R1	CY7C1021CV33-10ZXC	150	2.3	24	24	299	0

**Summary for Technology: R7**

**5 records**

**Sum** **11094** **0**

**R8**

MID	073303	R1	CY62167DV30LL	125	2.4	96	96	3168	0
CCD	073802	R1	CY62167DV30	125	2.4	96	96	4272	0
CCD	073802	R2	CY62167DV30	125	2.4	96	96	4515	0
CCD	073802	R3	CY62167DV30	125	2.4	96	96	4635	1
MID	074004	R1	CY6215DG30	125	2.35	96	96	5484	0
MID	MR074063	R1	CY62167DV30LL-70BVIT	125	2.4	96	96	299	0
MID	MR081061	R1	CY62167DV30LL-55BVXI	125	1.9	96	96	300	0
MID	MR082052	R1	CY62167DV30LL-55BVI	125	2.4	96	96	299	0
MID	MR083055	R1	CY62177DV30LL-55BAXI	125	2.4	96	96	299	0

073802-3E1 Poor Salicidation

**Summary for Technology: R8**

**9 records**

**Sum** **23271** **1**

**R9**

MID	073206	R4	CY7C1347GC	150	2.25	12	12	3409	0
MID	073206	R4	CY7C1347GC	150	2.25	24	12	3405	0
MID	073206	R4	CY7C1347GC	150	2.25	36	12	3404	0
MID	073206	R4	CY7C1347GC	150	2.25	48	12	3404	0
MID	073206	R5	CY7C1347G	150	2.25	12	12	3408	0
MID	073206	R5	CY7C1347G	150	2.25	24	12	3402	0
MID	073206	R5	CY7C1347G	150	2.25	36	12	3402	0
MID	073206	R5	CY7C1347G	150	2.25	48	12	3398	0
MID	073206	R6	CY7C1347G	150	2.25	12	12	3390	0
MID	073206	R6	CY7C1347G	150	2.25	24	12	3389	0
MID	073206	R6	CY7C1347G	150	2.25	36	12	3385	0
MID	073206	R6	CY7C1347G	150	2.25	48	48	3379	0

MID	074601	R1	CY7C1518JV18-300BZC	125	2.7	96	96	816	0		
MID	074601	R2	7C1543AC-GBBC	125	2.7	96	96	637	1	074601-2E1	Poly/ Nitride Protrusion
MID	074601	R3	CY7C1563V18-400BZC	125	2.7	96	96	713	0		
MID	074601	R4	CY7C1563V18-400BZC	125	2.7	96	96	1348	0		
MID	075001	R1A	CY7C1370D	150	2.7	48	48	2826	1	075001-1BE	No visual defect
MID	075001	R1B	CY7C1370D	150	2.7	48	48	832	0		
MID	075001	R2	CY7C1370D	150	2.7	48	48	3281	0		
MID	075001	R3	CY7C1370D	150	2.7	48	48	3237	0		
MID	075002	R1	CY14722	150	2.5	48	48	470	0		
MID	075002	R1A	CY7C14722	150	2.25	48	48	542	0		
MID	075002	R5	CY7C14722	150	2.25	48	48	859	0		
MID	075002	R6	CY7C14722	150	2.25	48	48	1319	0		
MID	075002	R7	CY7C14722	150	2.25	48	48	893	0		
MID	075002	R7A	CY7C14722	150	2.7	48	48	382	0		
MID	075002	R7B	CY7C14722	150	2.7	48	48	366	0		
MID	075002	R8	CY7C14722	150	2.7	48	48	952	0		
MID	075002	R8A	CY7C14722	150	2.7	48	48	652	0		
MID	075002	R8B	CY7C14722	150	2.7	48	48	311	0		
MID	075002	R9A	CY7C14722	150	2.25	48	48	1171	0		
MID	075002	R9B	CY7C14722	150	2.25	48	48	629	0		
MID	MR063094	R1	CY7C1354CV25-166AXC	150	2.88	48	48	3475	0		
MID	MR074038	R2	CY7C1370D-200AXC	150	2.7	12	12	3297	0		
MID	MR074038	R2	CY7C1370D-200AXC	150	2.7	24	24	3295	0		
MID	MR074038	R2	CY7C1370D-200AXC	150	2.7	36	36	3290	0		
MID	MR074038	R2	CY7C1370D-200AXC	150	2.7	48	48	3286	0		
MID	MR074038	R2	CY7C1370D-200AXC	150	2.7	96	96	3281	0		
MID	MR074038	R3	CY7C1370D-250AXC	150	2.7	12	12	3255	0		
MID	MR074038	R3	CY7C1370D-250AXC	150	2.7	24	12	3251	0		
MID	MR074038	R3	CY7C1370D-250AXC	150	2.7	36	12	3245	0		
MID	MR074038	R3	CY7C1370D-250AXC	150	2.7	48	12	3242	0		
MID	MR074038	R3	CY7C1370D-250AXC	150	2.7	96	48	3237	0		
MID	MR074070	R1	CY7C1347G-133AXC	150	2.25	48	48	300	0		
MID	MR081040	R1	CY7C1512V18	125	2.25	96	96	1280	0		
MID	MR081040	R2	CY7C1512V18	125	2.25	96	96	1604	0		
MID	MR081040	R3	CY7C1512V18	125	2.25	96	96	1430	0		
MID	MR081040	R4	CY7C1512V18	125	2.25	96	96	1399	0		
MID	MR082068	R1	CY7C1347G-133AXC	150	2.25	48	48	300	0		
<b>Summary for Technology: R9</b>		<b>49</b>	<b>records</b>								
<b>Sum</b>								<b>105478</b>	<b>2</b>		
<b>R95</b>											
MID	054911	R2B	CY62157ELL	150	1.85	48	48	1030	0		
MID	MR074009	R1	CS6673AT	125	1.85	96	96	80	0		
MID	MR074009	R2	CY62146EV30LL-45ZSXI	125	1.85	96	96	270	0		
MID	MR082051	R1	CY62128EV30LL-45ZXI	125	1.85	144	144	674	0		
<b>Summary for Technology: R95</b>		<b>4</b>	<b>records</b>								
<b>Sum</b>								<b>2054</b>	<b>0</b>		
<b>S4</b>											
CCD	070505	R1A	CY8C20334-12PVXIES	125	5.5	96	96	506	0		
CCD	070505	R1A(1)	CY8C20334-12PVXIES	125	5.5	96	96	5	0		
CCD	070505	R1B	CY8C20334-12PVXIES	125	5.5	96	96	386	0		

CCD	070505	R1B(1)	8C20334-12PVXIES	125	5.5	96	96	125	0
CCD	071104	R1A	CY8C21223-24PVXIES	125	5.5	96	96	505	0
CCD	071402	R1	CY8C244235A-24PVXIES	125	5.5	96	96	888	0
CCD	071402	R1(1)	CY8C244235A-24PVXIES	125	5.5	96	96	38	0
CCD	071402	R1A	CY8C244235A-24PVXIES	125	5.5	96	96	74	0
DCD	071801	R1	CY22050FZXI	150	3.8	48	48	1101	0
DCD	071801	R1A	CY22050ZXC-155T	150	3.8	60	12	419	0
DCD	071801	R1B	CY22050FZXI	150	3.8	48	48	500	0
DCD	071801	R2	CY22050FZXI	150	3.8	48	48	500	0
CCD	072803	R1	CY8C24423A-12PVXE	125	5.5	48	48	836	0
CCD	072803	R2	CY8C24423A-12PVXE	125	5.5	72	24	835	0
CCD	072803	R3	CY8C24423A-12PVXE	125	5.5	72	24	834	0
CCD	074006	R1	CY8C27443-12PVXE	150	5.5	48	48	198	0
SLM	074901	R1	CYONS1001-LBXC	125	4.2	168	168	744	0
SLM	074901	R2	CYONS1001-LBX	125	4.2	168	168	826	2
CCD	074908	R2	CY8C21534	125	5.5	96	96	1056	0
CCD	081405	R1	CYONS1004L-LBXC	40	4.2	168	168	500	0
CCD	081405	R3	CYONS1004L-LBXC	40	4.2	168	168	500	0
CCD	081405	R4	CYONS1004L-LBXC	40	4.2	168	168	1000	0
CCD	MR073065	R10	CY8C26443-24PVXI	125	5.5	96	96	981	0
CCD	MR073065	R3	CY8C27443-24PVXI	125	5.5	96	96	1000	0
CCD	MR073065	R4	CY8C27443-24PVXI	125	5.5	96	96	1000	0
CCD	MR073065	R5	CY8C27443-24PVXI	125	5.5	96	96	998	0
CCD	MR073065	R6	CY8C27443-24PVXI	125	5.5	96	96	1000	0
CCD	MR073065	R7	CY8C29466-24PVXI	125	5.5	144	48	997	0
CCD	MR073065	R8	CY8C27443-24PVXI	125	5.5	96	96	1000	0
CCD	MR073065	R9	CY8C27443-24PVXI	125	5.5	96	96	999	0
CCD	MR074016	R1	CY8C24123A-24SXI	125	5.5	96	96	320	0
CCD	MR074066	R1	CY8C26443-24PVXI	125	5.5	96	96	299	0
CCD	MR074067	R1	CY8C21534-24PVXIT	125	5.5	96	96	300	0
CCD	MR081021	R1	CY8C27443-24PVXI	125	5.5	96	96	299	0
CCD	MR081022	R1	CY8C27443-24PVXI	125	5.5	96	96	300	0
CCD	MR081062	R1	CY8C21534-24PVXI	125	5.5	96	96	366	0
CCD	MR082042	R1	CY8C29466-24PVXI	125	5.5	96	96	298	0
CCD	MR082059	R1	CP6458BM	125	5.5	96	96	300	0
CCD	MR082067	R1	CY8C27443-24PVXI	125	5.5	96	96	300	0
CCD	MR083056	R1a	CY8C244235A-24PVXIES	125	5.5	96	96	681	0

Bin 9 (Ihbernate & Isleep current sum failure), Bin 6 (Tracking failure)

Summary for Technology: S4

40 records

Sum 23814 2

UMC 0.18

DCD	71604	R2	CY22H402SW-AXC	125	3.8	96	96	384	0
DCD	71604	R2	CY22H402SW-AXC	125	3.8	96	96	153	0

Summary for Technology: UMC 0.18

2 records

Sum 537 0



# Summary Detail -- LFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
<b>B53</b>												
	DCD	MR081052	R1	CY7B994V-2AXI	125	4.2	168	168	299	0		
	DCD	MR081052	R1	CY7B994V-2AXI	125	4.2	1000	840	297	0		
	DCD	MR081073	R1	CY7B993V-5AC	125	4	168	168	298	0		
	DCD	MR081073	R1	CY7B993V-5AC	125	4	1000	840	298	0		
	CCD	MR083072	R1	CYRF6936-40LFXC	125	3.8	168	168	100	0		
	CCD	MR083072	R2	CYRF6936-40LFXC	125	3.8	168	168	196	0		
<b>Summary for Technology: B53</b>			<b>6</b>	<b>records</b>					<b>1488</b>	<b>0</b>		
<b>Sum</b>												
<b>C8</b>												
	DCD	071005	R1A	CYWB0224ABM-BVXIEST	125	0	80	80	179	0		
	DCD	072103	R2	CY7C68003-24LQXIEST	150	2.07	80	80	185	0		
	DCD	072103	R2	CY7C68003-24LQXIEST	150	2.07	512	432	185	0		
	DCD	072404	R1	CYWB0124AB-BVXI	125	3.8	168	168	180	0		
	DCD	072404	R1	CYWB0124AB-BVXI	125	3.8	1000	832	179	0		
	DCD	072404	R2A	CYWB0124AB-BVXI	125	3.8	168	168	60	0		
	DCD	072404	R2A	CYWB0124AB-BVXI	125	3.8	1000	832	60	0		
	DCD	072404	R2B	CYWB0124AB-BVXI	125	3.8	168	168	60	0		
	DCD	072404	R2B	CYWB0124AB-BVXI	125	3.8	1000	832	60	0		
	DCD	072404	R2C	CYWB0124AB-BVXI	125	3.8	168	168	60	0		
	DCD	072404	R2C	CYWB0124AB-BVXI	125	3.8	1000	832	60	0		
	DCD	072404	R3A	CYWB0124AB-BVXI	125	3.8	168	168	60	0		
	DCD	072404	R3A	CYWB0124AB-BVXI	125	3.8	1000	832	60	0		
	DCD	072404	R3B	CYWB0124AB-BVXI	125	3.8	168	168	60	0		
	DCD	072404	R3B	CYWB0124AB-BVXI	125	3.8	1000	832	60	0		
	DCD	072404	R3C	CYWB0124AB-BVXI	125	3.8	168	168	59	0		
	DCD	072404	R3C	CYWB0124AB-BVXI	125	3.8	1000	832	59	0		
	DCD	080604	R1	CYWB0124AB-BVXI	125	2.5	168	168	179	0		
	DCD	080604	R1	CYWB0124AB-BVXI	125	2.5	1000	832	179	0		
	CCD	MR073060	R1	CY7C65630-56LFXC	125	3.8	1000	832	294	0		
	CCD	MR074065	R1	CY7C68013A-56PVXC	125	3.8	168	168	300	0		
	CCD	MR074065	R1	CY7C68013A-56PVXC	125	3.8	1000	832	300	0		
	CCD	MR081056	R1	CY7C68300C-56PVXC	125	3.8	168	168	299	0		
	CCD	MR081056	R1	CY7C68300C-56PVXC	125	3.8	1000	832	299	0		
	DCD	MR083054	R1	CG6882AMT	125	3.8	168	168	300	0		
<b>Summary for Technology: C8</b>			<b>25</b>	<b>records</b>					<b>3776</b>	<b>0</b>		
<b>Sum</b>												
<b>C9</b>												
	MID	080602	R5A	CY7C1061DV33	125	3.77	168	168	199	0		
	MID	080602	R6D	CY7C1061DV33	125	3.77	168	168	200	0		
	MID	080602	R6D	CY7C1061DV33	125	3.77	1000	832	200	0		
	MID	083602	R1	CY08632	125	2.07	168	168	178	0		
	MID	MR081072	R1	CY7C1061DV33	125	3.77	168	168	199	0		
	MID	MR082045	R1	CY7C1021DV30-10ZSXI	150	3.77	80	80	997	0		

	MID	MR082045	R1	CY7C1021DV30-10ZSXI	150	3.77	500	420	995	0
	MID	MR082045	R2	CY7C1021DV30-10ZSXI	150	3.77	80	80	997	0
	MID	MR082045	R2	CY7C1021DV30-10ZSXI	150	3.77	500	420	997	0
<b>Summary for Technology: C9</b>			<b>9</b>	<b>records</b>						
<b>Sum</b>									<b>4962</b>	<b>0</b>
<b>L28</b>										
	MID	080608	R1	CY2077EFSXC	150	5.75	80	80	118	0
	MID	080608	R1	CY2077EFSXC	150	5.75	500	420	118	0
	DCD	MR082039	R1	CY2292FZX	150	3.8	80	80	298	0
	DCD	MR082039	R1	CY2292FZX	150	3.8	500	420	298	0
<b>Summary for Technology: L28</b>			<b>4</b>	<b>records</b>						
<b>Sum</b>									<b>832</b>	<b>0</b>
<b>L8</b>										
	CCD	064302	R2	CY2FLEXO-LV	125	2.35	1000	832	119	0
<b>Summary for Technology: L8</b>			<b>1</b>	<b>records</b>						
<b>Sum</b>									<b>119</b>	<b>0</b>
<b>P26</b>										
	CCD	MR073062	R1	CY7C63723-PXC	150	5.5	500	420	299	0
<b>Summary for Technology: P26</b>			<b>1</b>	<b>records</b>						
<b>Sum</b>									<b>299</b>	<b>0</b>
<b>R5</b>										
	MID	080803	R1	CY2305CSXI-1H	150	3.8	408	408	90	0
	MID	080803	R2	CY2305CSXI-1H	150	3.8	408	408	90	0
	MID	080803	R3	CY2305CSXI-1H	150	3.8	408	408	90	0
	CCD	MR081024	R1	CY7C67300-100AXI	150	3.8	80	80	298	0
	CCD	MR081024	R1	CY7C67300-100AXI	150	3.8	500	420	298	0
<b>Summary for Technology: R5</b>			<b>5</b>	<b>records</b>						
<b>Sum</b>									<b>866</b>	<b>0</b>
<b>R7</b>										
	MID	MR081023	R1	CY62137CVSL-70BAIT	125	3.3	168	168	295	0
	MID	MR081023	R1	CY62137CVSL-70BAIT	125	3.3	1000	832	289	0
<b>Summary for Technology: R7</b>			<b>2</b>	<b>records</b>						
<b>Sum</b>									<b>584</b>	<b>0</b>
<b>R8</b>										
	MID	MR073037	R1	CY62167DV30LL-55BVI	125	2.4	1000	1000	298	0
	MID	MR074063	R1	CY62167DV30LL-70BVIT	125	2.4	168	168	299	0
	MID	MR074063	R1	CY62167DV30LL-70BVIT	125	2.4	1000	832	298	0
	MID	MR081061	R1	CY62167DV30LL-55BVXI	125	2.4	168	168	299	0
	MID	MR081061	R1	CY62167DV30LL-55BVXI	125	2.4	1000	832	299	0
	MID	MR082052	R1	CY62167DV30LL-55BVI	125	2.4	168	168	299	0
	MID	MR082052	R1	CY62167DV30LL-55BVI	125	2.4	1000	832	294	0
	MID	MR083055	R1	CY62177DV30LL-55BAXI	125	2.4	168	168	299	0
<b>Summary for Technology: R8</b>			<b>8</b>	<b>records</b>						
<b>Sum</b>									<b>2385</b>	<b>0</b>
<b>R9</b>										
	MID	071211	R1	CY7C1370	150	2.25	80	80	60	0
	MID	071211	R1	CY7C1370	150	2.25	500	420	60	0
	MID	071211	R2	CY7C1370	150	2.25	500	420	60	0
	MID	071211	R4	CY7C1512V18	125	2.25	168	168	180	0
	MID	MR073028	R1	CY7C1313BV18-250BZC	125	2.25	168	168	459	0



MID	MR073028	R2	CY7C1313BV18-250BZC	125	2.25	168	168	313	0
MID	MR073028	R2	CY7C1313BV18-250BZC	125	2.25	1000	832	311	0
MID	MR073028	R3	CY7C1313BV18-250BZC	125	2.25	168	168	535	0
MID	MR074038	R1	CY7C1370D-250AXC	150	2.7	500	420	249	0
MID	MR074038	R3	CY7C1370D-250AXC	150	2.7	500	420	249	0
MID	MR074070	R1	CY7C1347G-133AXC	150	2.25	80	80	300	0
MID	MR074070	R1	CY7C1347G-133AXC	150	2.25	500	500	292	0
MID	MR082068	R1	CY7C1347G-133AXC	150	2.25	80	80	299	0
MID	MR082068	R1	CY7C1347G-133AXC	150	2.25	500	420	299	0

**Summary for Technology: R9**

**14 records**

**Sum 3666 0**

**R95**

MID	MR074009	R1	CS6673AT	125	1.85	168	168	270	0
MID	MR074009	R2	CY62146EV30LL-45ZSXI	125	1.85	168	168	80	0
MID	MR074071	R1	CY62146EV30LL-45BVXI	125	1.85	1000	832	995	0
MID	MR074071	R2	CY62146EV30LL-45BVXI	125	1.85	168	168	999	0
MID	MR074071	R2	CY62146EV30LL-45BVXI	125	1.85	1000	832	999	0
MID	MR082051	R1	CY62128EV30LL-45ZXI	125	1.85	168	168	674	0
MID	MR082051	R1	CY62128EV30LL-45ZXI	125	1.85	1000	832	674	0

**Summary for Technology: R95**

**7 records**

**Sum 4691 0**

**S4**

CCD	070505	R1A	CY8C20334-12PVXIES	125	5.5	168	168	89	0
CCD	070505	R1A	CY8C20334-12PVXIES	125	5.5	1000	832	89	0
CCD	070505	R1B	CY8C20334-12PVXIES	125	5.5	168	168	90	0
CCD	070505	R1B	CY8C20334-12PVXIES	125	5.5	1000	832	90	0
CCD	071104	R1A	CY8C21223-24PVXIES	125	5.5	168	168	90	0
CCD	071104	R1B	CY8C21223-24PVXIES	125	5.5	168	168	90	0
CCD	071402	R1	CY8C244235A-24PVXIES	125	5.5	168	168	180	0
CCD	071402	R1	CY8C244235A-24PVXIES	125	5.5	1000	832	180	0
DCD	071801	R1	CY22050FZXI	150	3.8	80	80	1101	0
DCD	071801	R1	CY22050FZXI	150	3.8	500	420	120	0
CCD	072402	R1A	CY8C24633-24PVXI	125	5.5	1000	832	200	0
CCD	072402	R1B	CY8C24633-24PVXI	125	5.5	1000	832	199	0
CCD	072402	R1C	CY8C24633-24PVXI	125	5.5	1000	832	199	0
SLM	074901	R1	CYONS1001-LBXC	125	4.2	500	500	235	0
SLM	074901	R1	CYONS1001-LBXC	125	4.2	650	150	235	0
SLM	074901	R2	CYONS1001-LBX	125	4.2	500	500	235	0
SLM	074901	R2	CYONS1001-LBX	125	4.2	650	150	234	0
DCD	081401	R1	CY25100KSXCF	150	3.8	80	80	116	0
DCD	081401	R1	CY25100KSXCF	150	3.8	500	420	115	0
CCD	081405	R1	CYONS1004L-LBXC	40	4.2	500	500	223	0
CCD	081405	R1	CYONS1004L-LBXC	40	4.2	650	150	216	0
CCD	081405	R3	CYONS1004L-LBXC	40	4.2	500	500	223	0
CCD	081405	R3	CYONS1004L-LBXC	40	4.2	650	150	218	3
CCD	081405	R4	CYONS1004L-LBXC	40	4.2	500	500	221	0
CCD	081405	R4	CYONS1004L-LBXC	40	4.2	650	150	217	0
DCD	082405	R1A	CY22393KFXI	150	3.8	80	80	116	0
CCD	MR064036	R1	CY8C21334-24PVXI	125	5.5	168	168	300	0
CCD	MR073026	R1	CY8C21534-24PVXIT	125	5.5	1000	832	289	0

CCD	MR073045	R1	CY8C24423BC-RASPI	125	5.5	1000	832	375	0	
CCD	MR073065	R1	CY8C24223A-24PVXIT	125	5.5	1000	832	300	0	
CCD	MR073065	R2	CY8C24423A-24PVXI	125	5.5	1000	832	299	0	
CCD	MR074016	R1	CY8C24123A-24SXI	125	5.5	192	192	320	0	
CCD	MR074016	R1	CY8C24123A-24SXI	125	5.5	1000	808	317	0	
CCD	MR074066	R1	CY8C26443-24PVXI	125	5.5	1000	832	297	0	
CCD	MR074067	R1	CY8C21534-24PVXIT	125	5.5	168	168	149	0	
CCD	MR074067	R1	CY8C21534-24PVXIT	125	5.5	1000	832	148	0	
CCD	MR081021	R1	CY8C27443-24PVXI	125	5.5	168	168	299	0	
CCD	MR081021	R1	CY8C27443-24PVXI	125	5.5	1000	832	299	0	
CCD	MR081022	R1	CY8C27443-24PVXI	125	5.5	168	168	300	0	
CCD	MR081022	R1	CY8C27443-24PVXI	125	5.5	1000	832	299	0	
CCD	MR081062	R1	CY8C21534-24PVXI	125	5.5	168	168	366	0	
CCD	MR081062	R1	CY8C21534-24PVXI	125	5.5	1048	880	366	0	
CCD	MR082042	R1	CY8C29466-24PVXI	125	5.5	168	168	296	0	
CCD	MR082042	R1	CY8C29466-24PVXI	125	5.5	1000	832	296	0	
CCD	MR082059	R1	CP6458BM	125	5.5	1000	832	266	0	
CCD	MR082059	R1	CP6458BM	125	5.5	1024	856	30	0	
CCD	MR082067	R1	CY8C27443-24PVXI	125	5.5	168	168	300	0	
CCD	MR082067	R1	CY8C27443-24PVXI	125	5.5	1024	856	300	0	
CCD	MR083046	R1	CY8C24223A-24PVXI	125	5.5	168	168	298	0	
<b>Summary for Technology: S4</b>		<b>49</b>	<b>records</b>							
<b>Sum</b>								<b>11839</b>	<b>9</b>	
<b>TSMC025</b>										
	MID	070201	R3	R3MAL	125	2.88	1096	928	75	0
<b>Summary for Technology: TSMC025</b>		<b>1</b>	<b>records</b>							
<b>Sum</b>								<b>75</b>	<b>0</b>	
<b>UMC 0.18</b>										
	DCD	71604	R1	CY22H402SW-AXC	125	3.8	1000	832	169	0
	DCD	71604	R2	CY22H402SW-AXC	125	3.8	168	72	182	0
<b>Summary for Technology: UMC 0.18</b>		<b>2</b>	<b>records</b>							
<b>Sum</b>								<b>351</b>	<b>0</b>	



# Summary Detail -- DRET Performance Over Time

TECHNOLOGY	DIVISION	VALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS	
L28	MID	080608	R1	CY2077EFSXC	150	0	500	500	77	0			
	MID	080608	R1	CY2077EFSXC	150	0	1000	500	77	0			
Summary for Technology: L28			2	records					154	0			
Sum										154	0		
S4	CCD	070505	R1A	CY8C20334-12PVXIES	150	0	500	500	39	0			
	CCD	070505	R1A	CY8C20334-12PVXIES	150	0	1000	500	39	0			
	CCD	070505	R1B	CY8C20334-12PVXIES	150	0	500	500	42	0			
	CCD	070505	R1B	CY8C20334-12PVXIES	150	0	1000	500	42	0			
	CCD	071104	R1A	CY8C21223-24PVXIES	150	0	500	500	40	0			
	CCD	071104	R1A	CY8C21223-24PVXIES	150	0	1000	500	40	0			
	CCD	071104	R1B	CY8C21223-24PVXIES	150	0	500	500	40	0			
	CCD	071104	R1B	CY8C21223-24PVXIES	150	0	1000	500	40	0			
	CCD	071402	R1	CY8C244235A-24PVXIES	150	0	500	500	77	0			
	CCD	071402	R1	CY8C244235A-24PVXIES	150	0	1000	500	77	0			
	DCD	071801	R1	CY22050FZXI	150	0	500	500	80	0			
	DCD	071801	R1	CY22050FZXI	150	0	1000	500	80	0			
	DCD	071801	R1B	CY22050FZXI	150	0	500	500	80	0			
	DCD	071801	R1B	CY22050FZXI	150	0	1000	500	80	0			
	DCD	071801	R2	CY22050FZXI	150	0	500	500	80	0			
	DCD	071801	R2	CY22050FZXI	150	0	1024	524	80	0			
	CCD	072402	R1A	CY8C24633-24PVXI	150	0	1000	500	37	0			
	CCD	072402	R1B	CY8C24633-24PVXI	150	0	1000	500	27	0			
	CCD	072402	R1C	CY8C24633-24PVXI	150	0	1000	500	26	0			
	CCD	072602	R1A	CY8C21534-24PVXI	150	0	500	500	30	0			
	CCD	072602	R1A	CY8C21534-24PVXI	150	0	1000	500	30	0			
	CCD	072602	R1B	CY8C21534-24PVXI	150	0	500	500	19	0			
	CCD	072602	R1B	CY8C21534-24PVXI	150	0	1000	500	19	0			
	CCD	072602	R1C	CY8C21534-24PVXI	150	0	500	500	30	0			
	CCD	072602	R1C	CY8C21534-24PVXI	150	0	1000	500	30	0			
	CCD	073302	R1A	CY8C29466	150	0	500	500	30	0			
	CCD	073302	R1A	CY8C29466	150	0	1000	500	30	0			
	CCD	073302	R1B	CY8C29466	150	0	500	500	25	0			
	CCD	073302	R1B	CY8C29466	150	0	1000	500	25	0			
	CCD	073302	R1C	CY8C29466	150	0	500	500	30	0			
	CCD	073302	R1C	CY8C29466	150	0	1000	500	30	0			
	CCD	073401	R1A	CY8C21534	150	0	500	500	30	0			
CCD	073401	R1A	CY8C21534	150	0	1024	524	30	0				
CCD	073401	R1B	CY8C21534	150	0	500	500	30	0				
CCD	073401	R1B	CY8C21534	150	0	1024	524	30	0				
CCD	073401	R1C	CY8C21534	150	0	500	500	30	0				
CCD	073401	R1C	CY8C21534	150	0	1024	524	30	0				

CCD	073601	R1A	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R1A	CY8C21534-24PVXI	150	0	1024	524	26	0
CCD	073601	R1A	CY8C21534-24PVXI	150	0	2000	976	26	0
CCD	073601	R1B	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R1B	CY8C21534-24PVXI	150	0	1024	400	26	0
CCD	073601	R1B	CY8C21534-24PVXI	150	0	2000	976	25	0
CCD	073601	R1C	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R1C	CY8C21534-24PVXI	150	0	1024	524	26	0
CCD	073601	R1C	CY8C21534-24PVXI	150	0	2000	976	26	0
CCD	073601	R2A	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R2A	CY8C21534-24PVXI	150	0	1024	1024	26	0
CCD	073601	R2A	CY8C21534-24PVXI	150	0	2000	976	26	0
CCD	073601	R2B	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R2B	CY8C21534-24PVXI	150	0	1024	524	26	0
CCD	073601	R2B	CY8C21534-24PVXI	150	0	2000	976	26	0
CCD	073601	R2C	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R2C	CY8C21534-24PVXI	150	0	1024	524	26	0
CCD	073601	R2C	CY8C21534-24PVXI	150	0	2000	976	26	0
CCD	073601	R3A	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R3A	CY8C21534-24PVXI	150	0	1024	524	26	0
CCD	073601	R3A	CY8C21534-24PVXI	150	0	2000	976	26	0
CCD	073601	R3B	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R3B	CY8C21534-24PVXI	150	0	1024	524	26	0
CCD	073601	R3B	CY8C21534-24PVXI	150	0	2000	976	26	0
CCD	073601	R3C	CY8C21534-24PVXI	150	0	500	500	26	0
CCD	073601	R3C	CY8C21534-24PVXI	150	0	1024	524	26	0
CCD	073601	R3C	CY8C21534-24PVXI	150	0	2000	976	26	0
CCD	073706	R1A	CY8C24494-24PVXI	150	0	500	500	43	0
CCD	073706	R1A	CY8C24494-24PVXI	150	0	1000	500	43	0
CCD	073706	R1B	CY8C24494-24PVXI	150	0	500	500	42	0
CCD	073706	R1B	CY8C24494-24PVXI	150	0	1000	500	42	0
CCD	073706	R1C	CY8C24494-24PVXI	150	0	500	500	80	0
CCD	073706	R1C	CY8C24494-24PVXI	150	0	1000	500	80	0
CCD	074908	R2	CY8C21534	150	0	500	500	77	0
CCD	074908	R2	CY8C21534	150	0	1024	524	77	0
CCD	080201	R1A	CY8C24494-24PVXI	150	0	500	500	33	0
CCD	080201	R1A	CY8C24494-24PVXI	150	0	1000	500	33	0
CCD	080201	R1B	CY8C24494-24PVXI	150	0	500	500	33	0
CCD	080201	R1B	CY8C24494-24PVXI	150	0	1000	500	33	0
CCD	080201	R1C	CY8C24494-24PVXI	150	0	500	500	33	0
CCD	080201	R1C	CY8C24494-24PVXI	150	0	1000	500	33	0
CCD	MR073006	R1	CY8C20434-12LFXI	150	0	1000	500	107	0
CCD	MR073021	R1	CY8C27443-24PVXI	150	0	1000	500	79	0
CCD	MR073029	R1	CY8C24223BC-24PVXIT	150	0	1000	500	80	0
CCD	MR073045	R1	CY8C24423BC-RASPI	150	0	1000	500	79	0
CCD	MR074066	R1	CY8C26443-24PVXI	150	0	500	500	80	0
CCD	MR074066	R1	CY8C26443-24PVXI	150	0	1000	500	80	0
CCD	MR074067	R1	CY8C21534-24PVXIT	150	0	500	500	80	0
CCD	MR074067	R1	CY8C21534-24PVXIT	150	0	1000	500	80	0
CCD	MR081021	R1	CY8C27443-24PVXI	150	0	500	500	80	0

CCD	MR081021	R1	CY8C27443-24PVXI	150	0	1000	500	80	0
CCD	MR081022	R1	CY8C27443-24PVXI	150	0	500	500	80	0
CCD	MR081022	R1	CY8C27443-24PVXI	150	0	1000	500	80	0
CCD	MR081032	R1	CY8C24533-24PVXI	150	0	500	500	78	0
CCD	MR081032	R1	CY8C24533-24PVXI	150	0	1000	500	78	0
CCD	MR082042	R1	CY8C29466-24PVXI	175	0	144	144	80	0
CCD	MR082042	R1	CY8C29466-24PVXI	175	0	288	144	80	0
CCD	MR082042	R1	CY8C29466-24PVXI	175	0	408	220	80	0
CCD	MR082042	R1	CY8C29466-24PVXI	150	0	500	500	80	0
CCD	MR082042	R1	CY8C29466-24PVXI	150	0	1000	500	80	0
CCD	MR082059	R1	CP6458BM	175	0	144	144	79	0
CCD	MR082059	R1	CP6458BM	175	0	288	144	79	0
CCD	MR082059	R1	CP6458BM	175	0	408	220	79	0
CCD	MR082059	R1	CP6458BM	150	0	500	500	80	0
CCD	MR082059	R1	CP6458BM	150	0	1000	500	80	0
CCD	MR082067	R1	CY8C27443-24PVXI	175	0	144	144	79	0
CCD	MR082067	R1	CY8C27443-24PVXI	175	0	288	144	78	0
CCD	MR082067	R1	CY8C27443-24PVXI	150	0	500	500	80	0
CCD	MR082067	R1	CY8C27443-24PVXI	150	0	1000	500	80	0
CCD	MR083046	R1	CY8C24223A-24PVXI	175	0	144	144	80	0
CCD	MR083046	R1	CY8C24223A-24PVXI	175	0	288	144	80	0
CCD	MR083046	R1	CY8C24223A-24PVXI	175	0	408	220	80	0
CCD	MR083046	R1	CY8C24223A-24PVXI	150	0	500	500	80	0
CCD	MR083056	R1A	CY7C64215-28PVXC	175	0	144	144	80	0
<b>Summary for Technology: S4</b>				<b>112</b>	<b>records</b>				
<b>Sum</b>							<b>5632</b>	<b>0</b>	

## Summary Detail -- PCT Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
<b>FBGA (0.75-0.8, 0.3mm)</b>											
BA48CRALE	T-OSE	MR074046	R1	CY62137CVSL-70BAIT	121	0	168	80	0		
BA48BQAAL	RA-CML	MR074061	R1	CY62137CVSL-70BAIT	121	0	168	79	0		
BA48CRALE	T-TAIWAN	MR074068	R1	CY62137CVSL-70BAIT	121	0	168	80	0		
BA48CRALE	OSE-T	MR081020	R1	CY62137CVSL-70BAI	121	0	168	78	0		
BA48CRALE	T-OSE	MR082018	R1	CY62137CVSL-70BAI	121	0	168	80	0		
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm)</b>			<b>5</b>	<b>records</b>							
<b>Sum</b>								<b>397</b>	<b>0</b>		
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>											
BK48ABAALL	UNISEM-INDONESIA	073503	R1	CY62137CVSL-70BAXI	121	0	168	78	0		
BK48CPBGL	G-TAIWAN	MR074056	R1	CY7C67200-48BAXIT	121	0	168	79	0		
BK48BWBLL	G-ASE	MR082010	R1	CY7C1021CV33-10BAXI	121	0	168	75	0		
BK48DJALL	G	MR083050	R1	CY62177DV30LL-55BAXI	121	0	168	79	0		
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)</b>			<b>3</b>	<b>records</b>							
<b>Sum</b>								<b>311</b>	<b>0</b>		
<b>FBGA (1.0)</b>											
BB100CAALE	G-ASE	MR081067	R1	CYP15G0101DXB-BBI	121	0	168	80	0		
BB100EAAL	G-TAIWAN	MR082041	R1	CY7B994V-2BBI	121	0	168	80	0		
BB144CALE	G-TAIWAN	NR072030	R1	CY7C08313AV-167BBC	121	0	168	50	0		
BB144CALE	G-TAIWAN	NR072030	R2	CY7C0830AV-167BBC	121	0	168	48	0		
BB144CALE	G-TAIWAN	NR072030	R3	CY7C0837AV-167BBC	121	0	168	47	0		
BB165AVLE	RA-CML	MR074047	R1	CY7C1313BV18-250BZC	121	0	168	75	0		
BB165AVLE	RA-CML	NR072019	R3	CY7C1313BV18-250BZC	121	0	168	49	0		
<b>Summary for Package Family : FBGA (1.0)</b>			<b>7</b>	<b>records</b>							
<b>Sum</b>								<b>429</b>	<b>0</b>		
<b>FLIPCHIP CSP (Pb-Free)</b>											
FN81AGAN	AU - Amkor Taiwan	072207	R2	CYWB0124ABX-FDXIT	121	0	288	82	0		
FN81AGAN	AU	NR081001	R1	CYWB0124ABX-FNXIT	121	0	96	84	0		
FN81AGAN	AU	NR081001	R2	CYWB0124ABX-FNXIT	121	0	96	89	0		
FN81AGAN	AU	NR081001	R3	CYWB0124ABX-FNXIT	121	0	96	89	0		
FN81AGAN	AU	NR081001	R4	CYWB0124ABX-FNXIT	121	0	96	87	0		
FN81AGAN	AU	NR081001	R5	CYWB0124ABX-FNXIT	121	0	96	81	0		
FN81AGAN	AU	NR081001	R6	CYWB0124ABX-FDXIT	121	0	96	89	0		
FN81AGAN	AU	NR081001	R7	CYWB0124ABX-FNXIT	121	0	96	90	0		
<b>Summary for Package Family: FLIPCHIP CSP (Pb-Free)</b>			<b>8</b>	<b>records</b>							

<b>Sum</b>										<b>691</b>	<b>0</b>
<b>PBGA (with Heat Spreader)</b>											
BG119ABALE	UNISEM - Indonesia	073702	R1	CY7C1012SV33	121	0	168	80	0		
BG119SALE	G-TAIWAN	MR074032	R1	CY7C1354C-166BGC	121	0	168	80	0		
BG119JALE	G-TAIWAN	MR081047	R1	CY7C1021AV33-8BGC	121	0	168	80	0		
BG119SALE	G-ASE	MR082021	R1	CY7C1354C-166BGC	121	0	168	80	18	MR082021-1P1	Cu Bridging
BG119SALE	G-TAIWAN	MR083001	R1	CY7C1354C-166BGC	121	0	168	80	0		
<b>Summary for Package Family: PBGA (with Heat Spreader)</b>			<b>5</b>	<b>records</b>							
<b>Sum</b>										<b>400</b>	<b>18</b>
<b>PDIP</b>											
P246DGAAGB	X-MMT	MR081066	R1	CY7C264-35PC	121	0	168	80	0		
<b>Summary for Package Family: PDIP</b>			<b>1</b>	<b>records</b>							
<b>Sum</b>										<b>80</b>	<b>0</b>
<b>PDIP (Pb-Free)</b>											
PZ183AXGN	O-IND	MR074015	R1	CS6632AF	121	0	168	77	0		
PZ183AXGN	O-INDS	MR081042	R1	CS6632AF	121	0	168	56	0		
PZ183DAGN	RA-CML	MR081069	R1	CY7C63723C-PXC	121	0	168	80	0		
<b>Summary for Package Family: PDIP (Pb-Free)</b>			<b>3</b>	<b>records</b>							
<b>Sum</b>										<b>213</b>	<b>0</b>
<b>PLCC</b>											
J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-15JC	121	0	168	80	0		
J32RBGAAGB	MMT-X	MR081030	R1	CY7C4231V-15JC	121	0	168	80	0		
J32RBGAAGB	X-MMT	MR082017	R1	CY7B9911V-5JCT	121	0	168	80	0		
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	121	0	168	80	0		
<b>Summary for Package Family: PLCC</b>			<b>4</b>	<b>records</b>							
<b>Sum</b>										<b>320</b>	<b>0</b>
<b>PLCC (Pb-Free)</b>											
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	121	0	168	80	0		
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	121	0	168	80	0		
JZ32RBGAN	M-PHILIPPINES	MR081063	R1	CY7B991-5JXC	121	0	168	80	0		
<b>Summary for Package Family: PLCC (Pb-Free)</b>			<b>3</b>	<b>records</b>							
<b>Sum</b>										<b>240</b>	<b>0</b>
<b>PQFP (Pb-Free)</b>											
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	121	0	168	80	0		
NZ52DXGAN	G-ASEK	MR081004	R1	CY7C136-55NXC	121	0	168	80	0		
NZ52DXGAN	G-ASE	MR082061	R1	CY7C131-25NXC	121	0	168	80	0		
<b>Summary for Package Family: PQFP (Pb-Free)</b>			<b>3</b>	<b>records</b>							
<b>Sum</b>										<b>240</b>	<b>0</b>
<b>QFN (0.4mm, Saw Type, Pb-free)</b>											
LN32AAAAAL	CA-Malaysia	82008	R1	CY8C21434-24LCXI	121	0	168	77	0		
<b>Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free)</b>			<b>1</b>	<b>records</b>							
<b>Sum</b>										<b>77</b>	<b>0</b>
<b>QFN (0.6mm, Punch Type, Pb-Free)</b>											
LK32AABAGL	L-KOREA	MR074006	R1	CY8C20434-12LKXI	121	0	168	80	0		
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	121	0	168	80	0		
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	121	0	168	80	0		
LK32AABAGL	L-KOREA	MR081039	R1	CY8C20434-12LKXI	121	0	168	80	0		
LK32AABAGL	L-KOREA	MR082022	R1	CY8C20434-12LKXI	121	0	168	80	0		

LK32AABAGL	L-KOREA	MR083006	R1	CY8C20424-12LKXI	121	0	168	81	0
LK32AABAGL	L-KOREA	NR072004	R1	CY8C20434-12LKXI	121	0	168	80	0
LK32AABAGL	L-KOREA	NR072004	R2	CY8C20424-12LKXI	121	0	168	80	0
LK32AABAGL	L-KOREA	NR072004	R3	CP6683AM	121	0	168	80	0

Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free) 9 records

Sum 721 0

QFN (0.6mm, Saw Type, Pb-Free)

LQ32DAGLL	CA-MALAYSIA	082602	R1	CY8C23533-24LQXI	121	0	168	80	0
LQ24ABAAL	AT-INDONESIA	MR074008	R1	CP6705ATT	121	0	168	79	0
LQ24ABAAL	AIT-INDS	MR081014	R1	CY8C20334-12LQXI	121	0	168	80	0
LQ24ABAAL	AT-INDNS	MR082030	R1	CY8C20334-12LQXI	121	0	168	80	0
LQ24ABAAL	AT-THAILAND	MR083053	R1	CY8C20324-12LQXI	121	0	168	80	0
LQ24ABAAL	AT-INDONESIA	NR073002	R1	CP6705ATT	121	0	168	80	0
LQ24ABAAL	AT-INDONESIA	NR073002	R2	CP6705AT	121	0	168	78	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R1	CY8C20334-12LQXI	121	0	168	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R2	CY8C20334-12LQXI	121	0	168	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R3	CP6785AM	121	0	168	78	0

Summary for Package Family: QFN (0.6mm, Saw Type, Pb-Free) 10 records

Sum 795 0

QFN (COL, 0.6mm, Saw Type, Pb-free)

LG16AAAAAL	M-Manila	080502	R1	CY8C20234-12LKXIT	121	0	168	77	0
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	121	0	168	79	0
LG16AAAAAL	M-PHILS	MR081027	R1	CY8C20234-12LKXI	121	0	168	80	0
LG16AAAAAL	M-PHILS	MR082028	R1	CY8C20234-12LKXI	121	0	168	80	0
LG16AAAAAL	M-PHILS	MR083048	R1	CY8C20122-LDX2I	121	0	168	79	0

Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free) 5 records

Sum 395 0

QFN (Punch Type, Pb-Free)

LY32AAAGR	L - Korea	080907	R3	CY8C21434-24LFXI	121	0	168	80	0
LY32BGAGL	RA	083604	R1	CY8C21434-24LFXI	121	0	168	80	0
LY32BGAGL	RA-CML	083905	R1	CY8C21434-24LFXI	121	0	168	80	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	121	0	168	80	0
LY32AAAGR	L-KOREA	MR081013	R1	CY8C21434-24LFXI	121	0	168	80	0
LY56AGAGL	L-KOREA	MR081028	R1	CY7C65630-56LFXC	121	0	168	80	0
LY56AGAGL	L-KOREA	MR082031	R1	CY7C65630-56LFXC	121	0	168	80	0
LY32AAAGR	L-KOREA	MR082048	R1	CG6672AMT	121	0	168	80	0

Summary for Package Family: QFN (Punch Type, Pb-Free) 8 records

Sum 640 0

QFN (Saw Type, Pb-free)

LT32BAAAGL	CA-MALAYSIA	074701	R1	CY8C21434-24LTXI	121	0	168	80	0
LT32BGAGL	RA-CML	082902	R1	CY8C21434-24LTXI	121	0	168	77	0
LT32BAAAGL	CA-THAILAND	MR083038	R1	CG7032AA	121	0	168	80	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R1	CY8C21434-24LTXI	121	0	168	76	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R2	CY8C21434-24LTXI	121	0	168	77	0
LT32BAAGL	CA-MALAYSIA	NR082002	R3	CY8C21434-24LTXI	121	0	168	77	0

Summary for Package Family: QFN (Saw Type, Pb-free) 6 records

Sum 467 0

QSOP (Pb-Free)

SQ2414AGN	R-CML	MR081031	R1	CY7C63723-QXC	121	0	168	79	0
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SQ2414AGN	R-CML	MR082036	R1	CY7C63823-QXC	121	0	168	80	0
SQ2414ABGN	R-CML	MR083023	R1	CY7C63743-QXC	121	0	168	79	0
<b>Summary for Package Family: QSOP (Pb-Free)</b>			<b>3</b>	<b>records</b>					
<b>Sum</b>								<b>238</b>	<b>0</b>
<b>RTSOP (Pb-free)</b>									
ZY28R2ALN	R-CML	MR083030	R1	CY62256VNLL-70ZRXT	121	0	168	81	0
<b>Summary for Package Family: RTSOP (Pb-free)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>81</b>	<b>0</b>
<b>SNC (Pb-Free)</b>									
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	121	0	168	80	0
SY2831BBLN	R-CML	MR081048	R1	CY62256NLL-55SNXI	121	0	168	80	0
SY2831BBLN	R-CML	MR081059	R1	CY62256NLL-55SNXI	121	0	168	80	0
SY2831BBLN	R-CML	MR082037	R1	CY62256NLL-70SNXC	121	0	168	80	0
SY2831BBLN	R-CML	MR083016	R1	CY62256NLL-70SNXCT	121	0	168	79	0
<b>Summary for Package Family: SNC (Pb-Free)</b>			<b>5</b>	<b>records</b>					
<b>Sum</b>								<b>399</b>	<b>0</b>
<b>SOIC</b>									
S0815BAAGB	O-OMEDATA	MR074054	R1	CY2304SI-1T	121	0	168	77	0
S0815KAGB	M-Phils	MR074062	R1	CY2302SC-1T	121	0	168	80	0
S0815PAGN	CML-RA	MR081010	R1	CY2305SC-1H	121	0	168	80	0
S1615EAGB	M-PHILS	MR082014	R1	CY2309SC-1H	121	0	168	80	0
S1615EAGB	M	MR083010	R1A	CY2292SL-1V1	121	0	168	80	0
<b>Summary for Package Family: SOIC</b>			<b>5</b>	<b>records</b>					
<b>Sum</b>								<b>397</b>	<b>0</b>
<b>SOIC (J-Lead)</b>									
V284CGAGGB	O-OMEDATA	081102	R2	CY7C107BN-15VCT	121	0	168	77	0
V284CGAGGB	O-IND	MR074014	R1	CY7C107BN-15VCT	121	0	168	77	0
V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	121	0	168	80	0
<b>Summary for Package Family: SOIC (J-Lead)</b>			<b>3</b>	<b>records</b>					
<b>Sum</b>								<b>234</b>	<b>0</b>
<b>SOIC (J-Lead, Pb-Free)</b>									
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	121	0	168	80	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	121	0	168	80	0
VZ32420GLL	R-CML	MR081008	R1	CY7C109D-10VXI	121	0	168	80	0
VZ28311BLL	CML-R	MR081033	R1	CY7C1399BN-12VXI	121	0	168	80	0
VZ444WAGL	R-CML	MR081050	R1	CY7C1021B-12VXC	121	0	168	79	0
VZ3646BGLL	R-CML	MR082009	R1	CY7C1049CV33-10VXC	121	0	168	80	0
VZ28313BLN	R-CML	MR082056	R1	CY7C1399BN-12VXC	121	0	168	80	0
VZ28313BLN	R-CML	MR083003	R1	CY7C1399BN-12VXC	121	0	168	80	0
VZ444AABLL	R-CML	MR083035	R1	CY7C1021DV33-10VXI	121	0	168	79	0
<b>Summary for Package Family: SOIC (J-Lead, Pb-Free)</b>			<b>9</b>	<b>records</b>					
<b>Sum</b>								<b>718</b>	<b>0</b>
<b>SOIC (Pb-Free)</b>									
SZ815CGAN	M - Manila	080803	R1	CY2305CSXI-1H	121	0	96	80	0
SZ815CGAN	M - Manila	080803	R1	CY2305CSXI-1H	121	0	168	80	0
SZ815CGAN	M - Manila	080803	R2	CY2305CSXI-1H	121	0	96	80	0
SZ815CGAN	M - Manila	080803	R2	CY2305CSXI-1H	121	0	168	80	0

SZ815CGAN	M - Manila	080803	R3	CY2305CSXI-1H	121	0	96	80	0
SZ815CGAN	M - Manila	080803	R3	CY2305CSXI-1H	121	0	168	80	0
SZ1615DGN	M-Amkor	081907	R1	CY2309CSXI-1H	121	0	168	79	0
SZ324513BN	R	082007	R1	CY7C53120E4-40SXIES	121	0	96	77	0
SZ1615NAGN	CA-MALAYSIA	082203	R1	CY8C20180-SX2I	121	0	168	80	0
SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	121	0	168	80	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	121	0	168	80	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	121	0	168	80	0
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	121	0	168	79	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	121	0	168	80	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	121	0	168	80	0
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	121	0	168	80	0
SZ1615EGN	M-PHIL	MR081005	R1	CY2309SXC-1HT	121	0	168	80	0
SZ32157BLN	R-CML	MR081006	R1	CG6707AM	121	0	168	80	0
SZ2032GAN	R-CML	MR081012	R1	CY2291FX	121	0	168	80	0
SZ815PAGN	RA-CML	MR081034	R1	CY2305SXC-1H	121	0	168	80	0
SZ1615FAL	T-OSE	MR081049	R1	CY2309CSXC-1	121	0	168	79	0
SZ324516LL	R-CML	MR082005	R1	CY62148ELL-55SXI	121	0	168	80	0
SZ28327BGL	R-CML	MR082006	R1	CY8C27443-24SXI	121	0	168	80	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	121	0	168	79	0
SZ1615KGN	RA-CML	MR082015	R1	CY2309SXC-1HT	121	0	168	80	0
SZ1615FAL	T-OSE	MR082016	R1	CY8C201A0-SX2I	121	0	168	80	0
SZ1815CGAN	M-PHILS	MR082023	R1	CY8C24123A-24SXI	121	0	168	80	0
SZ1615EGN	M-PHILS	MR082025	R1	CY2309NZSXC-1H	121	0	168	80	0
SZ24312BGN	R-CML	MR082057	R1	CY7C63743C-SXC	121	0	168	80	0
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	121	0	168	80	0
SZ324516BL	R-CML	MR083017	R1	CY62148ELL-55SXIT	121	0	168	80	0
SZ28327BGL	R-CML	MR083018	R1	CY8C27443-24SXIT	121	0	168	80	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	121	0	168	80	0
SZ24315BGN	RA-CML	MR083025	R1	CY7C63823-SXC	121	0	168	80	0
SZ815PABGN	RA-CML	MR083034	R1	CY2305SXC-1H	121	0	168	81	0
SZ1615FAL	T-TAIWAN	MR083041	R1	CY23EP09SXC-1H	121	0	168	79	0
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXI-1T1	121	0	168	79	0
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	121	0	168	80	0
SZ1615KGN	RA-CML	NR072009	R3	CY2292SXI-1T1	121	0	168	80	0
SZ815PAGN	RA-CML	NR081002	R14	CY22560SXI	121	0	168	80	0
SZ815PAGN	RA-CML	NR081002	R2	CY25560SXC	121	0	168	80	0
SZ15PAGN	RA-CML	NR081002	R3	CY25560SXC	121	0	168	80	0

Summary for Package Family: SOIC (Pb-Free)

42 records

Sum 3352 0

SSOP (Pb-Free)

SP2821AGB	M - Manila	074908	R2	CY8C21534	121	0	168	55	0
SP28214GL	T-TAIWAN	081002	R3	CY8C24423A-24PVXI	121	0	168	80	0
SP28215GGL	RA-CML	081213	R1	CY8C24533-24PVXI	121	0	168	77	0
SP2814HAL	M-PHIL	MR064068	R1	CS6250AM	121	0	168	50	0
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	121	0	168	80	0
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	121	0	168	79	0
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	121	0	168	80	0
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	121	0	168	79	0
SP563BGAL	R-CML	MR081007	R1	CY7C68300C-56PVXC	121	0	168	80	0

SP28214GL	T-OSE	MR081009	R1	CY8C24494-24PVXI	121	0	168	80	0
SP28215GGL	RA-CML	MR081016	R1A	CY8C21534-24PVXI	121	0	168	80	0
SP2822BGL	M-PHILS	MR081043	R1	CY8C21534-24PVXAT	121	0	96	80	0
SP2822BGL	M-PHILS	MR081043	R1	CY8C21534-24PVXAT	121	0	168	80	0
SP2029AAAGL	RA-CML	MR081064	R1	CY8C21334-24PVXI	121	0	168	80	0
SP202AAAGN	RA-CML	MR082007	R1	CP6650AMT	121	0	168	80	0
SP563BBBGL	R-CML	MR082008	R1	CY7C68300C-56PVXC	121	0	168	79	0
SP28214GL	T-OSE	MR082013	R1	CY8C26443-24PVX	121	0	168	80	0
SP2822BGL	M-PHILS	MR082038	R1	CY8C24423A-12PVXE	121	0	168	80	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	121	0	168	80	0
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	121	0	96	80	0
SP563BBBG	R-CML	MR083011	R1	CY7C68013-56PVXC	121	0	168	80	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	121	0	168	80	0
SP28214GL	T-TAIWAN	MR083036	R1	CY8C9520A-24PVXI	121	0	168	80	0
SP2822BGL	M-PHIL	NR071001	R2A	CP6659AM	121	0	96	80	0
SP2822BGL	M-PHIL	NR071001	R2A	CP6659AM	121	0	168	80	0
SP2822BGL	M-PHIL	NR071001	R3	CP6659AMT	121	0	168	80	0

**Summary for Package Family: SSOP (Pb-Free)**      **26 records**

**Sum**      **2019**      **0**

**TQFP**

A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	121	0	168	80	0
A32BXGBGB	Q-KOREA	MR081038	R1	CY7C4221V-15AC	121	0	168	80	0
A32LXGXGB	Q-KOREA	MR082024	R1	CY29948AC	121	0	168	80	0
A32LXGXGB	Q-KOREA	MR083012	R1	CY29948AI	121	0	168	80	0

**Summary for Package Family: TQFP**      **4 records**

**Sum**      **320**      **0**

**TQFP (10mm X 10mm)**

AS64CGAGB	Q-KOREA	MR081026	R1	CY7C4285-15ASI	121	0	168	80	0
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**Summary for Package Family: TQFP (10mm X 10mm)**      **1 records**

**Sum**      **80**      **0**

**TQFP (Pb-Free)**

AZ120DAGAR	L-Korea	080610	R1	CY7C0831AV-133AXI	121	0	168	77	0
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	121	0	168	80	0
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	121	0	168	80	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	121	0	168	80	0
AZ32BXGAN	Q-KOREA	MR081015	R1A	CY7C4201V-15AXC	121	0	168	80	0
AZ100SFAL	R-CML	MR081017	R1	CY7C024-25AXC	121	0	168	80	0
AZ100RXBLL	R-CML	MR081045	R1	CY7C1360C-166AXC	121	0	168	79	0
AZ32GXGAN	G-TAIWAN	MR081051	R1A	CY29942AXCT	121	0	168	80	0
AZ144AAAGR	Q-KOREA	MR081054	R1	CY7C056V-15AXC	121	0	168	80	0
AZ128SABLL	R-CML	MR082004	R1	CY7C68013A-128AXC	121	0	168	80	0
AZ32GXGAN	G-ASE	MR082020	R1	CY29942AXI	121	0	168	80	0
AZ44SGGAN	R-CML	MR082040	R1	CS6567AM	121	0	168	80	0
AZ100SFA	R-CML	MR082049	R1	CY7C024-25AXC	121	0	168	80	0
AZ32BXGAN	Q-KOREA	MR082054	R1	CY7C4251V-15AXC	121	0	168	80	0
AZ44SGGAN	R-CML	MR082060	R1	CS6567AM	121	0	168	80	0
AZ44SGGAN	R-CML	MR083014	R1	CS6567AM	121	0	168	80	0
AZ32BXGAN	Q-KOREA	MR083031	R1	CY7C4251V-25AXC	121	0	168	80	0
AZ100SEAL	RA-CML	MR083032	R1	CY7B994V-5AXI	121	0	168	79	0

AZ120DGAGR	L-KOREA	NR083001	R1	CY0823CC	121	0	168	77	0
<b>Summary for Package Family: TQFP (Pb-Free)</b>			<b>19</b>	<b>records</b>					
<b>Sum</b>								<b>1512</b>	<b>0</b>
<b>TQFP (Thermal)</b>									
AT120ABAGE	Q-KOREA	NR072029	R1	CYS25G0101DX-ATXC	121	0	168	80	0
AT120ABAGE	Q-KOREA	NR072029	R2	CYS25G0101DX-ATXC	121	0	168	80	0
AT120ABAGE	Q-KOREA	NR072029	R3	CYS25G0101DX-ATXC	121	0	168	80	0
<b>Summary for Package Family: TQFP (Thermal)</b>			<b>3</b>	<b>records</b>					
<b>Sum</b>								<b>240</b>	<b>0</b>
<b>TQFP (Thermal, Pb-Free)</b>									
AG120ABAGR	Q-KOREA	NR072017	R2	CYS25G0101DX-ATXC	121	0	168	50	0
<b>Summary for Package Family: TQFP (Thermal, Pb-Free)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>50</b>	<b>0</b>
<b>TSOP (Pb-free)</b>									
ZT28R4AGL	R-CML	080302	R3	CY7C1399BNL-12ZXC	121	0	168	80	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	121	0	168	78	0
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	121	0	168	80	0
ZT28R4AGL	R-CML	MR081058	R1	CY7C1399BNL-12ZXC	121	0	168	80	0
ZT32RABALL	T-TAIWAN	MR081060	R1	CY62128EV30LL-45ZXI	121	0	168	80	0
ZT32RABALL	T-OSE	MR082019	R1	CY62128EV30LL-45ZXI	121	0	168	80	0
ZT28R4BGL	R-CML	MR083028	R1	CY7C1399BN-12ZXC	121	0	168	80	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	121	0	168	80	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	121	0	16	45	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	121	0	168	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	121	0	168	45	0
<b>Summary for Package Family: TSOP (Pb-free)</b>			<b>11</b>	<b>records</b>					
<b>Sum</b>								<b>773</b>	<b>0</b>
<b>EXPOSED TSOP (Pb-free)</b>									
ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXEC	121	0	168	80	0
<b>Summary for Package Family: EXPOSED TSOP (Pb-free)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>80</b>	<b>0</b>
<b>TSOP I (Pb-Free)</b>									
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	121	0	168	80	0
ZB32RHALN	R-CML	MR081029	R1	CY62128EV30LL-45AZXI	121	0	168	80	0
ZB32RHALN	R-CML	MR082003	R1	CY62128EV30LL-45ZAXI	121	0	168	80	0
ZB32RHALL	R-CML	MR082053	R1	CY62128DV30LL-55ZAXI	121	0	168	79	0
ZB32RHBALN	R-CML	MR083042	R1	CY62128ELL-45ZAXI	121	0	168	80	0
<b>Summary for Package Family: TSOP I (Pb-Free)</b>			<b>5</b>	<b>records</b>					
<b>Sum</b>								<b>399</b>	<b>0</b>
<b>TSOP II</b>									
ZS444ABAL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	121	0	168	80	0
<b>Summary for Package Family: TSOP II</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>80</b>	<b>0</b>
<b>TSOP II (Pb-Free)</b>									
ZW544AALL	G-TAIWAN	MR064024	R1	CY7C1061AV33-12ZXC	121	0	168	50	0
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	121	0	168	80	0
ZW324GALL	T-OSE	MR074042	R1	CY7C1019D-10ZSXI	121	0	168	80	0
ZW544AALL	G-ASEK	MR081002	R1	CY7C1061AV33-12ZXC	121	0	168	76	0
ZW444AMBLN	R-CML	MR081003	R1	CY62157EV30LL-45ZSXI	121	0	168	80	0

ZW324CBLL	OSE-T	MR081025	R1	CY62148ELL-45ZSXI	121	0	168	80	0
ZW444AMBLN	R-CML	MR082002	R1	CY62146EV30LL-45SZSX	121	0	168	80	0
ZW324CBLL	T-OSE	MR082026	R1	CY62148ELL-45ZSXI	121	0	168	80	0
ZW544AALL	G-TAIWAN	MR082034	R1	CY7C1069AV33-10ZXC	121	0	168	80	0
ZW544AALL	G-TAIWAN	MR083002	R1	CY7C1069AV33-10ZX	121	0	168	108	0
ZW444AHBLL	R-CML	MR083020	R1	CY7C1021DV33-10ZSXI	121	0	168	80	0
ZW324CBLL	T-OSE	MR083043	R1	CY62148EV30LL-45ZSXI	121	0	168	80	0
ZW444AJBLN	R-CML	MR083071	R1	CY7C1021CV33-10ZXC	121	0	96	80	0
ZW444AJBLN	R-CML	MR083071	R1	CY7C1021CV33-10ZXC	121	0	168	80	0

Summary for Package Family: TSOP II (Pb-Free) 14 records

Sum 1114 0

**TSSOP**

Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	121	0	168	78	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	121	0	168	80	0
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	121	0	168	80	0
Z1620GAGN	RA-CML	MR081036	R1	CY2309ZC-1H	121	0	168	80	0
Z1620GAGN	RA-CML	MR082029	R1	CY2309ZC-1H	121	0	168	80	0
Z1611XAGB	M-PHILS	MR082033	R1	CY2308ZC-1H	121	0	168	80	0
Z1620GAGN	RA-CML	MR083033	R1	CY2309ZC-1H	121	0	168	79	0

Summary for Package Family: TSSOP 7 records

Sum 557 0

**TSSOP (Pb-Free)**

ZZ0813AAAL	OSE-Taiwan	064606	R1	CY2XP31ZXC	121	0	168	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R1	CY2XP31ZXC	121	0	288	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R1	CY2XP31ZXC	121	0	500	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R2	CY2XP31ZXC	121	0	168	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R2	CY2XP31ZXC	121	0	288	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R2	CY2XP31ZXC	121	0	500	49	0
ZZ0813AAAL	OSE-Taiwan	064606	R3	CY2XP31ZXC	121	0	168	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R3	CY2XP31ZXC	121	0	288	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R3	CY2XP31ZXC	121	0	500	50	0
ZZ1620GAN	RA-CML	071801	R1	CY22050FZXI	121	0	168	80	0
ZZ1620GAN	CML-RA	082004	R1	CY23EP09ZXC-1HT	121	0	168	74	0
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	121	0	168	80	0
ZZ1614HAN	OSE-T	MR081011	R1	CY22395FXC	121	0	168	80	0
ZZ1620GAN	RA-CML	MR081046	R1	CY22392ZXI-384	121	0	168	80	0
ZZ1613HAN	T-OSE	MR082011	R1	CY2308ZXI-1HT	121	0	168	80	0
ZZ1620GAN	RA-CML	MR082032	R1	CY2308ZXI-1H	121	0	168	80	0
ZZ1620GBAN	RA-CML	MR083015	R1	CY22150FZXI	121	0	168	80	0
ZZ0812BGL	T-TAIWAN	MR083044	R1	CY24904ZXC	121	0	168	80	0

Summary for Package Family: TSSOP (Pb-Free) 18 records

Sum 1163 0

**VFBGA (0.75-0.8, 0.3mm)**

BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	121	0	168	80	0
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Summary for Package Family: VFBGA (0.75-0.8, 0.3mm) 1 records

Sum 80 0

**VFBGA (0.75-0.8, 0.3mm, Pb-Free)**

BZ100GAAGL	AT-Indonesia	071005	R1	CYWB0224ABS-BVXIES	121	0	168	77	0
BZ100CGAL	RA-CML	072404	R2A	CYWB0124AB-BVXI	121	0	168	26	0
BZ100CGAL	RA-CML	072404	R2B	CYWB0124AB-BVXI	121	0	168	26	0

BZ100CGAL	RA-CML	072404	R2C	CYWB0124AB-BVXI	121	0	168	26	0
BZ100CGAL	RA-CML	072404	R3A	CYWB0124AB-BVXI	121	0	168	26	0
BZ100CGAL	RA-CML	072404	R3B	CYWB0124AB-BVXI	121	0	168	24	0
BZ100CGAL	CML-RA	072404	R3C	CYWB0124AB-BVXI	121	0	168	26	0
BZ56FAALE	G-TAIWAN	MR064025	R1	CY7C68053-56BAXIES	121	0	168	50	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	121	0	168	79	0
BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	121	0	168	80	0
BZ56IAAAGL	AT-IND	MR074053	R1	CY7C68053-56BAXIT	121	0	168	80	0
BZ48CEAALL	G-TAIWAN	MR074055	R1	CY62147EV30LL-45BVXI	121	0	168	79	0
BZ56AGAGL	G-ASE	MR074057	R2	CY7C68013-56BAXC	121	0	168	80	0
BZ100CGAL	RA-CML	MR081018	R1	CYWB0124AB-BVXI	121	0	168	80	0
BZ48DAGLL	RA-CML	MR081019	R1	CY62137FV30LL-45BVXI	121	0	168	80	0
BZ56FAALE	ASE-G	MR081037	R1	CY7C68053-56BAX	121	0	168	80	0
BZ100BAALL	G-TAIWAN	MR081044	R1	CYDM128B16-55BVXI	121	0	168	80	0
BZ56IAAAGL	AIT-INDONESIA	MR081053	R1	CY7C68053-56BAXI	121	0	168	80	0
BZ48DAGLL	RA-CML	MR082001	R1	CY62137FV30LL-45BVXI	121	0	168	80	0
BZ100CGAL	RA-CML	MR082027	R1	CYWB0124AB-BVXI	121	0	168	80	0
BZ56AGAL	G-TAIWAN	MR082035	R1	CY7C68013A-56BAXC	121	0	168	80	0
BZ48CQAALL	G-TAIWAN	MR082047	R1	CY62137FV30LL-45BVXI	121	0	168	80	0
BZ56IAAAGL	AT-INDS	MR082055	R1	CY7C68053-56BAXI	121	0	168	80	0
BZ48CFAALL	G-TAIWAN	MR083004	R1	CY62157EV30-45BVXIT	121	0	168	80	0
BZ56GABGL	RA-CML	MR083005	R1	CY7C68053-56BAXIT	121	0	168	80	0
BZ100CGAL	RA-CML	MR083029	R1	CYWB0124AB-BVXI	121	0	168	80	0
BZ48ABDALL	AT-CARSEM	MR083060	R1	CY62137EV30LL-45BVXI	121	0	168	77	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	121	0	168	80	0
BZ56IAAAGL	AIT-INDONESIA	NR072003	R3	CY7C68053-56BAXI	121	0	168	50	0
BZ56GABGL	RA-CML	NR072032	R1	CY7C68053-56BAXI	121	0	168	50	0
BZ56GABGL	RA-CML	NR072032	R2	CY7C68053-56BAXI	121	0	168	45	0
BZ56GABGL	RA-CML	NR072032	R3	CY7C68053-56BAXI	121	0	168	42	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R1	CYWB0124AB-BVXI	121	0	168	78	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R2	CYWB0124AB-BVXI	121	0	168	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R3	CYWB0124AB-BVXI	121	0	168	80	0
BZ100CGAL	RA	RR083024	R1	CYWB0124AB-BVXIT	121	0	96	80	0
BZ100CGAL	RA	RR083024	R2	CYWB0124AB-BVXIT	121	0	96	80	0
BZ100CGAL	RA	RR083024	R3	CYWB0124AB-BVXIT	121	0	96	80	0
BZ100CGAL	RA	RR083024	R4	CYWB0124AB-BVXIT	121	0	96	80	0

Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)

39 records

Sum 2621 0

## Summary Detail -- HAST Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
<b>FBGA (0.75-0.8, 0.3mm)</b>											
BA48DJALE	G-TAIWAN	073905	R5	CY62177DV30L	130	3.63	128	45	0		
BA48CDGALE	G-TAIWAN	MR073003	R1A	CY7C1041CV33-10BAC	130	3.65	128	35	0		
BA48BQAAL	RA-CML	MR073051	R1	CY62137CVSL-70BAIT	130	3.6	128	80	0		
BA48CRALE	T-OSE	MR074046	R1	CY62137CVSL-70BAIT	130	3.63	128	77	0		
BA48BQAAL	RA-CML	MR074061	R1	CY62137CVSL-70BAIT	130	3.6	128	77	0		
BA48CRALE	T-TAIWAN	MR074068	R1	CY62137CVSL-70BAIT	130	3.63	128	80	0		
BA48CDGALE	G-ASE	MR074074	R1	CY7C1041CV33-10BAC	130	3.65	264	80	0		
BA48CRALE	OSE-T	MR081020	R1	CY62137CVSL-70BAI	110	3.3	128	80	0		
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm)</b>			<b>8</b>	<b>records</b>							
<b>Sum</b>								<b>554</b>	<b>0</b>		
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>											
BK48ABAALL	UNISEM-INDONESIA	073503	R1	CY62137CVSL-70BAXI	130	3.6	128	40	0		
BK48ABAALL	UNISEM-INDONESIA	073503	R1A	CY62137CVSL-70BAXI	130	3.6	128	36	0		
BK48BWALL	G-TAIWAN	MR073041	R1	CY7C1021CV33-10BAXI	130	3.65	128	50	0		
BK48BQALL	RA-CML	MR073046	R1	CY62137CVSL-70BAXIT	130	3.6	128	71	0		
BK48BWBLL	G-ASE	MR074073	R1	CY7C1021CV33-12BAXI	110	3.3	128	80	0		
BK48BWBLL	G-ASE	MR082010	R1	CY7C1021CV33-10BAXI	130	3.65	128	77	0		
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)</b>			<b>6</b>	<b>records</b>							
<b>Sum</b>								<b>354</b>	<b>0</b>		
<b>FBGA (1.0)</b>											
165 BGA	AIT-Indonesia	73509	R1	CY7C1305BV25	130	1.98	128	21	0		
165 BGA	AIT-Indonesia	73509	R2	CY7C1305BV25	130	1.98	128	28	0		
165 BGA	AIT-Indonesia	73509	R2	CY7C1305BV25	130	1.98	128	49	0		
BB165AVLE	RA-CML	NR072019	R3	CY7C1313BV18-250BZC	130	1.98	128	50	0		
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	130	1.98	128	76	0		
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	130	1.98	128	76	0		
BB165AVLE	RA-CML	NR072019	R13	CY7C1313BV18-250BZC	130	1.98	128	50	0		
BB165AVLE	RA-CML	NR072019	R14	CY7C1313BV18-250BZC	130	1.98	128	26	0		
<b>Summary for Package Family: FBGA (1.0)</b>			<b>8</b>	<b>records</b>							
<b>Sum</b>								<b>376</b>	<b>0</b>		
<b>FLIPCHIP CSP (Pb-Free)</b>											
FN81AGAN	AU	NR081001	R1	CYWB0124ABX-FNXIT	130	3.63	96	56	0		
FN81AGAN	AU	NR081001	R2	CYWB0124ABX-FNXIT	130	3.63	96	53	0		
FN81AGAN	AU	NR081001	R3	CYWB0124ABX-FNXIT	130	3.63	96	52	0		

FN81AGAN	AU	NR081001	R5	CYWB0124ABX-FNXIT	130	3.63	96	55	0
FN81AGAN	AU	NR081001	R6	CYWB0124ABX-FDXIT	130	3.63	96	44	0
FN81AGAN	AU	NR081001	R6	CYWB0124ABX-FDXIT	130	3.63	96	44	0
<b>Summary for Package Family: FLIPCHIP CSP (Pb-Free)</b>			<b>6</b>	<b>records</b>				<b>304</b>	<b>0</b>
<b>Sum</b>								<b>304</b>	<b>0</b>
<b>PBGA (with Heat Spreader)</b>									
BG119ABALE	UNISEM - Indonesia	073702	R1	CY7C1012SV33	130	3.65	128	32	0
BG119ABALE	UNISEM - Indonesia	073702	R1	CY7C1012SV33	130	3.65	128	47	0
<b>Summary for Package Family: PBGA (with Heat Spreader)</b>			<b>2</b>	<b>records</b>				<b>79</b>	<b>0</b>
<b>Sum</b>								<b>79</b>	<b>0</b>
<b>PDIP</b>									
P246DGAAGB	X-MMT	MR081066	R1	CY7C264-35PC	130	5.5	128	80	0
<b>Summary for Package Family: PDIP</b>			<b>1</b>	<b>records</b>				<b>80</b>	<b>0</b>
<b>Sum</b>								<b>80</b>	<b>0</b>
<b>PDIP (Pb-Free)</b>									
PZ183AXGN	O-IND	MR074015	R1	CS6632AF	130	5.5	128	77	0
PZ183AXGN	O-INDS	MR081042	R1	CS6632AF	130	5.5	128	77	0
PZ183DAGN	RA-CML	MR081069	R1	CY7C63723C-PXC	130	5.5	128	80	0
PZ183AXGN	O-OMEDATA	MR083039	R1	CS6632AF	130	3.63	128	80	0
<b>Summary for Package Family: PDIP (Pb-Free)</b>			<b>4</b>	<b>records</b>				<b>314</b>	<b>0</b>
<b>Sum</b>								<b>314</b>	<b>0</b>
<b>PLCC</b>									
J32RBGAAGB	X-MMT	MR073044	R1	CY7B992-5JIT	130	3.63	128	45	0
J32RBGAAGB	X-ALPHATIK	MR073044	R1A	CY7B992-5JIT	130	3.63	128	35	0
J32RBGAAGB	MMT-X	MR081030	R1	CY7C4231V-15JC	130	3.63	128	40	0
J32RBGAAGB	X-MMT	MR081030	R1A	CY7C4231V-15JC	130	3.63	128	39	0
J32RBGAAGB	X-MMT	MR082017	R1	CY7B9911V-5JCT	130	3.6	128	40	0
J32RBGAAGB	X-MMT	MR082017	R1A	CY7B9911V-5JC	130	3.6	128	40	0
<b>Summary for Package Family: PLCC</b>			<b>6</b>	<b>records</b>				<b>239</b>	<b>0</b>
<b>Sum</b>								<b>239</b>	<b>0</b>
<b>PLCC (Pb-Free)</b>									
JZ32RBGAN	M-PHILS	MR073043	R1A	CY7C4241-15JXC	130	5.5	128	37	0
JZ32RBGAN	M-PHILIPPINES	MR081063	R1	CY7B991-5JXC	130	3.63	128	40	0
JZ32RBGAN	M-PHILS	MR081063	R1A	CY7B991-5JXC	130	3.63	128	40	0
<b>Summary for Package Family: PLCC (Pb-Free)</b>			<b>3</b>	<b>records</b>				<b>117</b>	<b>0</b>
<b>Sum</b>								<b>117</b>	<b>0</b>
<b>QFN (0.6mm, Punch Type, Pb-Free)</b>									
LK32AABAGL	L-KOREA	MR073006	R1	CY8C20434-12LFXI	130	5.25	128	73	0
LK321GAGL	RA-CML	MR073063	R1	CP6693ATT	130	5.25	128	47	0
LK321GAGL	RA	MR073063	R1A	CP6693AAT	130	5.25	128	27	0
LK32AABAGL	L-KOREA	MR074006	R1	CY8C20434-12LKXI	130	5.25	128	40	0
LK32AABAGL	L-KOREA	MR074006	R1A	CY8C20434-12LKXI	130	5.25	128	40	0
LK321GAGL	RA-CML	MR074024	R1	CP6745AMT	130	5.25	128	50	0
LK321GAGL	CML-RA	MR074024	R1A	CP6745AMT	130	5.25	128	29	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	130	5.25	128	40	0
LK32AABAGL	L-KOREA	MR081039	R1	CY8C20434-12LKXI	130	5.25	128	39	0
LK32AABAGL	L-KOREA	MR081039	R1A	CY8C20434-12LKXI	130	5.25	128	40	0
LK32AABAGL	L-KOREA	MR082022	R1	CY8C20434-12LKXI	130	5.25	128	40	0
LK32AABAGL	AMKOR-L	MR082022	R1A	CY8C20434-12LKXI	130	5.25	128	40	0





LK32AABAGL	L-KOREA	MR083006	R1	CY8C20424-12LKXI	130	5.25	128	77	0
LK32AABAGL	L-KOREA	NR072004	R1	CY8C20434-12LKXI	130	5.25	128	40	0
LK32AABAGL	L-KOREA	NR072004	R1	CY8C20434-12LKXI	130	5.25	168	40	0
LK32AABAGL	L-KOREA	NR072004	R3	CP6683AM	130	5.25	128	39	0

**Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free) 16 records**

**Sum 701 0**

**QFN (0.6mm, Saw Type, Pb-Free)**

LQ32CAAAAL	CA-MALAYSIA	082008	R4	CY8C21434A-24LQXI	130	5.25	128	77	0
LQ32DAGLL	CA-MALAYSIA	082602	R1	CY8C23533-24LQXI	130	3.3	128	78	0
LQ24ABAAL	AT-INDONESIA	MR074008	R1	CP6705ATT	130	5.25	128	42	0
LQ24ABAAL	AT-INDONESIA	MR074008	R1A	CP6705ATT	130	5.25	128	36	0
LQ24ABAAL	AIT-INDS	MR081014	R1	CY8C20334-12LQXI	130	5.25	128	40	0
LQ24ABAAL	AT-IND	MR081014	R1A	CY8C20334-12LQXI	130	5.25	128	38	0
LQ24ABAAL	AT-INDNS	MR082030	R1	CY8C20334-12LQXI	130	5.25	128	40	0
LQ24ABAAL	AIT-INDONESIA	MR082030	R1A	CY8C20334-12LQXI	130	5.25	128	40	0
LQ24ABAAL	AT-INDONESIA	NR073002	R1	CP6705ATT	130	5.25	128	39	0
LQ24ABAAL	AT-INDONESIA	NR073002	R1	CP6705ATT	130	5.25	128	39	0
LQ24ABAAL	AT-INDONESIA	NR073002	R2	CP6705AT	130	5.25	128	40	0
LQ24ABAAL	AT-INDONESIA	NR073002	R2	CP6705AT	130	5.25	128	40	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R1	CY8C20334-12LQXI	130	5.25	128	40	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R1	CY8C20334-12LQXI	130	5.25	128	40	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R2	CY8C20334-12LQXI	130	5.25	128	39	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R3	CP6785AM	130	5.25	128	40	0

**Summary for Package Family: QFN (0.6mm, Saw Type, Pb-Free) 16 records**

**Sum 708 0**

**QFN (COL, 0.6mm, Saw Type, Pb-free)**

LG16AAAAAL	M-Manila	080502	R1	CY8C20234-12LKXIT	130	5.25	128	37	0
LG16AAAAAL	M-Manila	080502	R1	CY8C20234-12LKXIT	130	5.25	128	40	0
LG16AAAAAL	M-PHILS	MR081027	R1	CY8C20234-12LKXI	130	5.25	128	40	0
LG16AAAAAL	M-PHILS	MR081027	R1A	CY8C20234-12LKXI	130	5.25	128	40	0
LG16AAAAAL	M-PHILS	MR081027	R1B	CY8C20234-12LKXI	130	5.25	128	40	0
LG16AAAAAL	M-PHILS	MR082028	R1	CY8C20234-12LKXI	130	5.25	128	40	0
LG16AAAAAL	M-PHILS	MR082028	R1A	CY8C20234-12LKXI	130	5.25	128	39	0

**Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free) 7 records**

**Sum 276 0**

**QFN (Punch Type, Pb-Free)**

LY32AAAGR	L - Korea	080907	R3	CY8C21434-24LFXI	130	5.25	128	40	0
LY32AAAGR	L - Korea	080907	R3	CY8C21434-24LFXI	130	5.25	128	40	0
LY32BGAGL	RA	083604	R1	CY8C21434-24LFXI	130	5.25	128	78	0
LY32BGAGL	RA-CML	083905	R1	CY8C21434-24LFXI	130	5.25	128	77	0
LY56AGAGL	L-KOREA	MR073056	R1	CY7C65630-56LFCT	130	3.63	128	57	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	130	5.25	128	80	0
LY32AAAGR	L-KOREA	MR081013	R1	CY8C21434-24LFXI	130	5.25	128	40	0
LY32AAAGR	L-KOREA	MR081013	R1A	CY8C21434-24LFXI	130	5.25	128	40	0
LY56AGAGL	L-KOREA	MR081028	R1	CY7C65630-56LFXC	130	3.63	128	38	0
LY56AGAGL	L-KOREA	MR081028	R1A	CY7C65630-56LFXC	130	3.63	128	39	0
LY56AGAGL	L-KOREA	MR082031	R1	CY7C65630-56LFXC	130	3.63	128	68	0
LY32AAAGR	L-KOREA	MR082048	R1	CG6672AMT	130	5.25	128	77	0

LY68AGABGL	L-KOREA	NR064004	R2A	CY8C24994-24LFXI	130	5.25	128	80	0
LY68AGABGL	L-KOREA	NR064004	R2A	CY8C24994-24LFXI	130	5.25	128	37	0
<b>Summary for Package Family: QFN (Punch Type, Pb-Free)</b>			<b>14</b>	<b>records</b>					
<b>Sum</b>								<b>791</b>	<b>0</b>
<b>QFN (Saw Type, Pb-free)</b>									
LT32BAAAGL	CA-MALAYSIA	074701	R1	CY8C21434-24LTXI	130	5.25	128	80	0
LT32BGAGL	RA-CML	082902	R1	CY8C21434-24LTXI	130	5.25	128	79	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R1	CY8C21434-24LTXI	130	5.25	128	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R2	CY8C21434-24LTXI	130	5.25	128	77	0
LT32BAAGL	CA-MALAYSIA	NR082002	R3	CY8C21434-24LTXI	130	5.25	128	40	0
<b>Summary for Package Family: QFN (Saw Type, Pb-free)</b>			<b>5</b>	<b>records</b>					
<b>Sum</b>								<b>353</b>	<b>0</b>
<b>QSOP (Pb-Free)</b>									
SQ2414ABGN	R-CML	MR083023	R1	CY7C63743C-QXC	130	5.5	128	80	0
<b>Summary for Package Family: QSOP (Pb-Free)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>80</b>	<b>0</b>
<b>RTSOP (Pb-free)</b>									
ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	130	5.5	128	77	0
ZY28R2ALN	R-CML	MR083030	R1	CY62256VNLL-70ZRKIT	130	3.63	128	39	0
ZY28R2ALN	R	MR083030	R1A	CY62256VNLL-70ZRKIT	130	3.63	128	39	0
<b>Summary for Package Family: RTSOP (Pb-free)</b>			<b>3</b>	<b>records</b>					
<b>Sum</b>								<b>155</b>	<b>0</b>
<b>SNC (Pb-Free)</b>									
SY2831BBLN	R-CML	MR081048	R1	CY62256NLL-55SNXI	130	5.5	128	40	0
SY2831BBLN	R-CML	MR081048	R1A	CY62256NLL-55SNXI	130	5.5	128	40	0
SY2831BBLN	R-CML	MR081059	R1	CY62256NLL-55SNXI	130	5.5	128	40	0
SY2831BBLN	R-CML	MR081059	R1A	CY62256NLL-55SNXI	130	5.5	128	40	0
SY2831BBLN	R-CML	MR082037	R1	CY62256NLL-70SNXC	130	5.5	128	40	0
SY2831BBLN	CML-R	MR082037	R1A	CY62256NLL-70SNXC	130	5.5	128	40	0
SY2831BBLN	R-CML	MR083016	R1	CY62256NLL-70SNXCT	130	5.5	128	40	0
SY2831BBLN	R-CML	MR083016	R1A	CY62256NLL-70SNXCT	130	5.5	128	40	0
<b>Summary for Package Family: SNC (Pb-Free)</b>			<b>8</b>	<b>records</b>					
<b>Sum</b>								<b>320</b>	<b>0</b>
<b>SOIC</b>									
S0815BAAGB	O-OMEDATA	MR074054	R1	CY2304SI-1T	130	3.63	128	77	0
S0815PAGN	CML-RA	MR081010	R1	CY2305SC-1H	130	3.63	128	80	0
S0815BAAGB	O-INDS	MR081041	R1	CY23055C	130	3.63	128	77	0
S1615EAGB	M-PHILS	MR082014	R1	CY2309SC-1H	130	3.8	128	80	0
S0815BAAGB	O-OMEDATA	MR082062	R1	CY2304SI-1T	130	3.63	128	80	0
S1615EAGB	M	MR083010	R1A	CY2292SL-1V1	130	3.63	128	80	0
<b>Summary for Package Family: SOIC</b>			<b>6</b>	<b>records</b>					
<b>Sum</b>								<b>474</b>	<b>0</b>
<b>SOIC (J-Lead)</b>									
V284CGAGGB	O-OMEDATA	081102	R2	CY7C107BN-15VCT	130	5.55	128	60	0
V284CGAGGB	O-Ind	MR073017	R1A	CY7C107BN-15VC	130	5.55	128	26	0
V284CGAGGB	O-IND	MR074014	R1	CY7C107BN-15VCT	130	5.55	128	60	0

V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	130	5.5	128	79	0
<b>Summary for Package Family: SOIC (J-Lead)</b>			<b>4</b>	<b>records</b>				<b>225</b>	<b>0</b>
<b>Sum</b>								<b>225</b>	<b>0</b>
<b>SOIC (J-Lead, Pb-Free)</b>									
VZ2439AGS	O-INDS	MR073016	R1	CY7C187-25VXC	130	5.5	128	77	0
VZ3648GALL	R-CML	MR073032	R1A	CY7C1049DV33-10VXIT	130	3.65	128	47	0
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	130	3.65	128	60	0
VZ3646GLL	R-CML	MR074001	R1A	CY7C1049CV33-10VXCT	130	3.65	128	20	0
VZ32420GLL	R-CML	MR081008	R1	CY7C109D-10VXI	130	5.5	128	40	0
VZ28311BLL	CML-R	MR081033	R1	CY7C1399BN-12VXI	130	3.63	128	80	0
VZ444WAGL	R-CML	MR081050	R1	CY7C1021B-12VXC	130	5.5	128	38	0
VZ444WAGL	R-CML	MR081050	R1A	CY7C1020B-12VXC	130	5.5	128	37	0
VZ3646BGLL	R-CML	MR082009	R1	CY7C1049CV33-10VXC	130	3.65	128	40	0
VZ3646BGLL	R-CML	MR082009	R1A	CY7C1049CV33-10VXC	130	3.65	128	37	0
VZ28313BLN	R-CML	MR083003	R1	CY7C1399BN-12VXC	130	3.3	128	77	0
VZ444AABLL	R-CML	MR083035	R1	CY7C1021DV33-10VXI	130	3.65	128	40	0
VZ444AABLL	R	MR083035	R1A	CY7C1021DV33-10VXI	130	3.65	128	40	0
<b>Summary for Package Family: SOIC (J-Lead, Pb-Free)</b>			<b>13</b>	<b>records</b>				<b>633</b>	<b>0</b>
<b>Sum</b>								<b>633</b>	<b>0</b>
<b>SOIC (Pb-Free)</b>									
SZ815CGAN	M - Manila	080803	R1	CY2305CSXI-1H	130	3.3	96	80	0
SZ815CGAN	M - Manila	080803	R1	CY2305CSXI-1H	130	3.3	128	80	0
SZ815CGAN	M - Manila	080803	R2	CY2305CSXI-1H	130	3.3	96	80	0
SZ815CGAN	M - Manila	080803	R2	CY2305CSXI-1H	130	3.3	128	80	0
SZ815CGAN	M - Manila	080803	R3	CY2305CSXI-1H	130	3.3	96	80	0
SZ815CGAN	M - Manila	080803	R3	CY2305CSXI-1H	130	3.3	128	80	0
SZ1615NAGN	CA-MALAYSIA	082203	R1	CY8C20180-SX2I	130	5.25	128	80	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	130	3.6	128	77	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	130	5.25	128	80	0
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	130	5.25	128	76	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	130	3.8	128	78	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	130	5.5	128	80	0
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	130	3.8	128	80	0
SZ1615EGN	M-PHIL	MR081005	R1	CY2309SXC-1HT	130	3.8	128	80	0
SZ32157BLN	R-CML	MR081006	R1	CG6707AM	130	3.6	128	79	0
SZ2032GAN	R-CML	MR081012	R1	CY2291FX	130	5.5	128	77	0
SZ815PAGN	RA-CML	MR081034	R1	CY2305SXC-1H	130	3.63	128	80	0
SZ324516LL	R-CML	MR082005	R1	CY62148ELL-55SXI	130	3.63	128	78	0
SZ28327BGL	R-CML	MR082006	R1	CY8C27443-24SXI	130	5.25	128	40	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	130	5.5	128	40	0
SZ1615KGN	RA-CML	MR082015	R1	CY2309SXC-1HT	130	3.8	128	80	0
SZ1815CGAN	M-PHILS	MR082023	R1	CY8C24123A-24SXI	130	5.25	128	80	0
SZ1615EGN	M-PHILS	MR082025	R1	CY2309NZSXC-1H	130	3.8	128	80	0
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	130	3.8	128	39	0
SZ1615DGN	M-PHILS	MR083009	R1A	CY2292SXL-1X6T	130	3.8	128	39	0
SZ28327BGL	R-CML	MR083018	R1	CY8C27443-24SXIT	130	5.25	128	40	0

SZ28327BGL	R-CML	MR083018	R1A	CY8C27443-24SXIT	130	5.25	128	39	0
SZ815PABGN	RA-CML	MR083034	R1	CY2305SXC-1H	130	3.63	128	80	0
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXI-1T1	130	3.8	128	80	0
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	130	3.8	128	80	0
SZ1615KGN	RA-CML	NR072009	R3	CY2292SXI-1T1	130	3.8	128	80	0
SZ815PAGN	RA-CML	NR081002	R14	CY22560SXI	130	3.63	128	80	0
SZ815PAGN	RA-CML	NR081002	R2	CY25560SXC	130	3.63	128	80	0
SZ15PAGN	RA-CML	NR081002	R3	CY25560SXC	130	3.63	128	80	0

**Summary for Package Family: SOIC (Pb-Free)**

**34 records**

**Sum** **2462** **0**

**SSOP (Pb-Free)**

SP563BAGL	R-CML	MR073055	R1	CP6603AMT	130	5.5	128	77	0
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	130	5.25	128	79	0
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	130	5.25	128	80	0
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	130	3.63	128	37	0
SP563BGAL	R-CML	MR081007	R1	CY7C68300C-56PVXC	130	3.3	128	78	0
SP28215GGL	RA-CML	MR081016	R1A	CY8C21534-24PVXI	130	5.25	128	80	0
SP2822BGL	M-PHILS	MR081043	R1	CY8C21534-24PVXAT	130	5.25	128	80	0
SP2029AAGL	RA-CML	MR081064	R1	CY8C21334-24PVXI	130	5.25	128	40	0
SP2029AAGL	RA-CML	MR081064	R1A	CY8C21334-24PVXI	130	5.25	128	32	0
SP202AAAGN	RA-CML	MR082007	R1	CP6650AMT	130	5.25	128	39	0
SP202AAAGN	CML-RA	MR082007	R1A	CP6650AMT	130	5.25	128	38	0
SP563BBBGL	R-CML	MR082008	R1	CY7C68300C-56PVXC	130	3.63	128	78	0
SP2822BGL	M-PHILS	MR082038	R1	CY8C24423A-12PVXE	130	5.25	128	39	0
SP2822BGL	M-PHILS	MR082038	R1A	CY8C24423A-12PVXE	130	5.25	128	40	0
SP563BBBG	R-CML	MR083011	R1	CY7C68013-56PVXC	130	3.63	128	38	0
SP563BBBG	R-CML	MR083011	R1A	CY7C68013A-56PVXC	130	3.63	128	39	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	130	5.25	128	40	0
SP28215BGL	RA-CML	MR083021	R1A	CY8C21534-24PVXI	130	5.25	128	40	0

**Summary for Package Family: SSOP (Pb-Free)**

**18 records**

**Sum** **974** **0**

**TQFP**

A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	130	5.5	128	40	0
A32BVGBGB	Q-KOREA	MR074019	R1A	CY7C4221V-15AC	130	5.5	128	39	0
A32BXGBGB	Q-KOREA	MR081038	R1	CY7C4221V-15AC	130	3.63	128	40	0
A32BXGBGB	Q-KOREA	MR081038	R1	CY7C4221V-15AC	130	3.63	128	40	0
A32LXGXGB	Q-KOREA	MR082024	R1	CY29948AC	130	3.63	128	40	0
A32LXGXGB	Q	MR082024	R1A	CY29948AC	130	3.63	128	38	0

**Summary for Package Family: TQFP**

**6 records**

**Sum** **237** **0**

**TQFP (10mm X 10mm)**

AS64AGAGB	Q-KOREA	MR073048	R1A	CY7C4235V-15ASC	130	5.5	128	20	0
AS64CGAGB	Q-KOREA	MR073048	R1B	CY7C4275-15ASC	130	5.5	128	57	0
AS64CGAGB	Q-KOREA	MR081026	R1	CY7C4285-15ASI	130	5.5	128	23	0
AS64CGAGB	Q-KOREA	MR081026	R1	CY7C4285-15ASI	130	5.5	128	56	0

**Summary for Package Family: TQFP (10mm X 10mm)**

**4 records**

**Sum** **156** **0**

**TQFP (Pb-Free)**

AZ100SFAL	R-CML	MR073022	R1	CY7C024-25AXC	130	5.5	128	42	0
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AZ100SFAL	R-CML	MR073022	R1A	CY7C024-25AXC	130	5.55	128	37	0
AZ44SFGAN	R-CML	MR073031	R1	CY37032VP44-100AXC	130	5.5	128	39	0
AZ44SFGAN	RA-CML	MR073031	R1A	CY37032VP44-100AXC	130	5.5	128	39	0
AZ32BXGAN	Q-KOREA	MR073057	R1	CY7C4251-15AXC	130	5.5	128	10	0
AZ32BXGAN	Q-KOREA	MR073057	R1	CY7C4251-15AXC	130	5.5	128	70	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	130	5.5	128	43	0
AZ32BXGAN	Q-KOREA	MR081015	R1	CY7C4201V-15AXC	130	3.63	128	39	0
AZ32BXGAN	Q-KOREA	MR081015	R1A	CY7C4201V-15AXC	130	3.63	128	39	0
AZ100SFAL	R-CML	MR081017	R1	CY7C024-25AXC	130	5.5	128	40	0
AZ100SFAL	R-CML	MR081017	R1A	CY7C024-25AXC	130	5.5	128	40	0
AZ100RXBLL	R-CML	MR081045	R1	CY7C1360C-166AXC	130	3.6	128	79	0
AZ32GXGAN	G-ASE	MR082020	R1	CY29942AXI	130	3.63	128	40	0
AZ32GXGAN	G-TAIWAN	MR082020	R1A	CY22942AXI	130	3.63	128	40	0
AZ100SFA	R-CML	MR082049	R1	CY7C024-25AXC	130	5.5	128	40	0
AZ100SFA	CML-R	MR082049	R1A	CY7C024-25AXC	130	5.5	128	40	0
AZ44SGGAN	R-CML	MR082060	R1	CS6567AM	130	5.25	128	40	0
AZ44SGGAN	R-CML	MR082060	R1A	CS6567AM	130	5.25	128	40	0
AZ32BXGAN	Q-KOREA	MR083031	R1	CY7C4251V-25AXC	130	3.63	128	40	0
AZ32BXGAN	Q	MR083031	R1A	CY7C4251V-25AXC	130	3.63	128	40	0
AZ100SEAL	RA-CML	MR083032	R1	CY7B994V-5AXI	130	3.63	128	35	0
AZ100SEAL	RA	MR083032	R1A	CY7B994V-5AXI	130	3.63	128	39	0
<b>Summary for Package Family: TQFP (Pb-Free)</b>			<b>22</b>	<b>records</b>					
<b>Sum</b>								<b>911</b>	<b>0</b>
<b>TQFP (Thermal)</b>									
AT120ABAGE	Q-KOREA	NR072029	R1	CYS25G0101DX-ATXC	130	3.63	128	40	0
AT120ABAGE	Q-KOREA	NR072029	R1	CYS25G0101DX-ATXC	130	3.63	128	39	0
AT120ABAGE	Q-KOREA	NR072029	R2	CYS25G0101DX-ATXC	130	3.63	128	40	0
<b>Summary for Package Family: TQFP (Thermal)</b>			<b>3</b>	<b>records</b>					
<b>Sum</b>								<b>119</b>	<b>0</b>
<b>TQFP (Thermal, Pb-free)</b>									
AG120ABAGR	Q-KOREA	NR072017	R1	CYS25G0101DX-ATXC	130	3.63	128	46	0
AG120ABAGR	Q-KOREA	NR072017	R2	CYS25G0101DX-ATXC	130	6.63	128	46	0
<b>Summary for Package Family: TQFP (Thermal, Pb-Free)</b>			<b>2</b>	<b>records</b>					
<b>Sum</b>								<b>92</b>	<b>0</b>
<b>TSOP (Pb-free)</b>									
ZT32RABALL	T-TAIWAN	MR073024	R1	CY62128ELL-45ZXIT	130	3.6	128	80	0
ZT28RGLL	R-CML	MR073052	R1	CY7C199D-10ZXI	130	5.5	128	79	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	130	3.6	128	77	0
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	130	3.63	128	77	0
ZT28R4AGL	R-CML	MR081058	R1	CY7C1399BNL-12ZXC	130	3.63	128	77	0
ZT32RABALL	T-TAIWAN	MR081060	R1	CY62128EV30LL-45ZXI	130	3.6	128	80	0
ZT32RABALL	T-OSE	MR082019	R1	CY62128EV30LL-45ZXI	130	3.6	128	37	0
ZT32RABALL	T-TAIWAN	MR082019	R1A	CY62128EV30LL-45ZXI	130	3.6	128	40	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	130	3.63	128	39	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	130	3.63	128	39	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	130	3.6	128	42	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	130	3.6	128	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	130	3.6	128	41	0
<b>Summary for Package Family: TSOP (Pb-free)</b>			<b>13</b>	<b>records</b>					

<b>Sum</b>								<b>753</b>	<b>0</b>	
<b>TSOP I (Pb-Free)</b>										
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	130	5.5	128	76	0	
ZB32RHALN	R-CML	MR081029	R1	CY62128EV30LL-45AZXI	130	5.5	128	78	0	
ZB32RHALN	R-CML	MR082003	R1	CY62128EV30LL-45ZAXI	130	3.6	128	80	0	
ZB32RHALL	R-CML	MR082053	R1	CY62128DV30LL-55ZAXI	130	5.5	128	40	0	
ZB32RHBALN	R-CML	MR083042	R1	CY62128ELL-45ZAXI	130	5.5	128	79	0	
<b>Summary for Package Family: TSOP I (Pb-Free)</b>			<b>5</b>	<b>records</b>						
<b>Sum</b>								<b>353</b>	<b>0</b>	
<b>TSOP II</b>										
ZS444ABAL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	130	3.65	128	80	0	
<b>Summary for Package Family: TSOP II</b>			<b>1</b>	<b>records</b>						
<b>Sum</b>								<b>80</b>	<b>0</b>	
<b>TSOP II (Pb-Free)</b>										
ZW444AMLN	R-CML	064602	R1	CY62157DV30L	130	3.6	96	47	0	
ZW544AALL	G-TAIWAN	MR073058	R1A	CY7C1069AV33-12ZXC	130	3.65	128	35	0	
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	130	3.65	128	79	0	
ZW544AALL	G-ASEK	MR081002	R1	CY7C1061AV33-12ZXC	130	3.65	128	42	0	
ZW444AMBLN	R-CML	MR081003	R1	CY62157EV30LL-45ZSXI	130	5.5	128	79	0	
ZW324CBLL	OSE-T	MR081025	R1	CY62148ELL-45ZSXI	130	3.6	128	72	0	
ZW444AMBLN	R-CML	MR082002	R1	CY62146EV30LL-45SZSX	130	3.6	128	79	0	
ZW324CBLL	T-OSE	MR082026	R1	CY62148ELL-45ZSXI	130	3.6	128	80	0	
ZW544AALL	G-TAIWAN	MR082034	R1	CY7C1069AV33-10ZXC	130	3.65	128	40	0	
ZW544AALL	G-ASEK	MR082034	R1A	CY7C1069AV33-10ZXC	130	3.65	128	40	0	
ZW444AHBLL	R-CML	MR083020	R1	CY7C1021DV33-10ZSXI	130	3.63	128	80	0	
<b>Summary for Package Family: TSOP II (Pb-Free)</b>			<b>11</b>	<b>records</b>						
<b>Sum</b>								<b>673</b>	<b>0</b>	
<b>TSSOP</b>										
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	130	3.63	128	80	0	
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	130	3.8	128	80	0	
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	130	5.5	128	80	0	
Z1620GAGN	RA-CML	MR081036	R1	CY2309ZC-1H	130	3.8	128	80	0	
Z1620GAGN	RA-CML	MR082029	R1	CY2309ZC-1H	130	3.8	128	78	0	
Z1611XAGB	M-PHILS	MR082033	R1	CY2308ZC-1H	130	3.8	128	77	0	
<b>Summary for Package Family: TSSOP</b>			<b>6</b>	<b>records</b>						
<b>Sum</b>								<b>475</b>	<b>0</b>	
<b>TSSOP (Pb-Free)</b>										
ZZ0813AAAL	OSE-Taiwan	064606	R1	CY2XP31ZXC	130	2.75	128	50	0	
ZZ0813AAAL	OSE-Taiwan	064606	R1	CY2XP31ZXC	130	2.75	256	50	0	
ZZ0813AAAL	OSE-Taiwan	064606	R2	CY2XP31ZXC	130	2.75	128	50	0	
ZZ0813AAAL	OSE-Taiwan	064606	R2	CY2XP31ZXC	130	2.75	256	50	0	
ZZ0813AAAL	OSE-Taiwan	064606	R3	CY2XP31ZXC	130	2.75	128	50	0	
ZZ0813AAAL	OSE-Taiwan	064606	R3	CY2XP31ZXC	130	2.75	256	50	0	
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	130	3.63	128	79	0	
ZZ1620GAN	RA-CML	MR081046	R1	CY22392ZXI-384	130	3.63	128	77	0	
ZZ1613HAN	T-OSE	MR082011	R1	CY2308ZXI-1HT	130	3.63	128	78	0	
ZZ1620GAN	RA-CML	MR082032	R1	CY2308ZXI-1H	130	3.8	128	78	0	
ZZ1620GBAN	RA-CML	MR083015	R1	CY22150FZXI	130	3.63	128	78	0	
ZZ2817AGL	RA-CML	NR072006	R3	CY24270ZXC	130	3.63	128	80	0	
<b>Summary for Package Family: TSSOP (Pb-Free)</b>			<b>12</b>	<b>records</b>						

<b>Sum</b>							<b>770</b>	<b>0</b>	
<b>VFBGA (0.75-0.8, 0.3mm)</b>									
BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	130	3.6	128	79	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>79</b>	<b>0</b>
<b>VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>									
BZ48ANAARL	UNISEM-INDONESIA	071902	R4	CY62157DV30LL-70BVXU	130	3.6	128	80	0
BZ100CGAL	RA-CML	072404	R1	CYWB0124AB-BVXI	130	3.63	128	76	0
BZ48CHAALL	G-TAIWAN	MR073005	r1	CY62126EV30LL-45BVXI	130	3.6	128	39	0
BZ56IAAAGL	AT-IND	MR074053	R1	CY7C68053-56BAXIT	130	3.63	128	40	0
BZ56IAAAGL	AT-IND	MR074053	R1A	CY7C68053-56BACIT	130	3.63	128	40	0
BZ56AGAGL	G-ASE	MR074057	R1	CY7C68013A-56BAXC	130	3.63	128	38	0
BZ56AGAGL	G-ASE	MR074057	R1A	CY7C68013A-56BAXC	130	3.63	128	26	0
BZ56FAALE	ASE-G	MR081037	R1	CY7C68053-56BAX	130	3.63	128	40	0
BZ56FAALE	G-ASE	MR081037	R1A	CY7C68053-56BAX	130	3.63	128	39	0
BZ56IAAAGL	AIT-INDONESIA	MR081053	R1	CY7C68053-56BAXI	110	3.63	264	35	0
BZ56IAAAGL	AT-THAILAND	MR081053	R1A	CY7C68053-56BAXI	110	3.63	264	38	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	130	3.63	128	45	0
BZ56IAAAGL	AIT-INDONESIA	NR072003	R11	CY7C68053-56BAXIT	130	3.63	128	40	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1A	CY7C68053-56BAXI	130	3.63	128	34	0
BZ56IAAAGL	AIT-Indonesia	NR072003	R2	CY7C68053-56BAXI	130	3.63	128	79	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>			<b>15</b>	<b>records</b>					
<b>Sum</b>								<b>689</b>	<b>0</b>

# Summary Detail -- TCT Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
<b>FBGA (0.75-0.8, 0.3mm)</b>											
BA48CRALE	T-OSE	MR074046	R1	CY62137CVSL-70BAIT	-65/150	0	500	80	0		
BA48CRALE	T-OSE	MR074046	R1	CY62137CVSL-70BAIT	-65/150	0	1000	79	0		
BA48BQAALE	RA-CML	MR074061	R1	CY62137CVSL-70BAIT	-65/150	0	500	80	0		
BA48BQAALE	RA-CML	MR074061	R1	CY62137CVSL-70BAIT	-65/150	0	1000	80	0		
BA48CRALE	T-TAIWAN	MR074068	R1	CY62137CVSL-70BAIT	-65/150	0	500	80	0		
BA48CRALE	T-TAIWAN	MR074068	R1	CY62137CVSL-70BAIT	-65/150	0	1000	79	0		
BA48CRALE	OSE-T	MR081020	R1	CY62137CVSL-70BAI	-65/150	0	500	80	0		
BA48CRALE	OSE-T	MR081020	R1	CY62137CVSL-70BAI	-65/150	0	1000	79	0		
BA48CRALE	T-OSE	MR082018	R1	CY62137CVSL-70BAI	-65/150	0	500	80	0		
BA48CRALE	T-OSE	MR082018	R1	CY62137CVSL-70BAI	-65/150	0	1000	80	0		
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm)</b>			<b>10</b>	<b>records</b>							
<b>Sum</b>								<b>797</b>	<b>0</b>		
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>											
BK48ABAALL	UNISEM-INDONESIA	073503	R1	CY62137CVSL-70BAXI	-65/150	0	500	75	0		
BK48ABAALL	UNISEM-INDONESIA	073503	R1	CY62137CVSL-70BAXI	-65/150	0	1000	75	0		-
BK48ABAALL	UNISEM-INDONESIA	073503	R2	CY62137CVSL-70BAXI	-65/150	0	500	78	0		
BK48ABAALL	UNISEM-INDONESIA	073503	R2	CY62137CVSL-70BAXI	-65/150	0	1000	78	0		-
BK48ABAALL	UNISEM-INDONESIA	073503	R3	CY62137CVSL-70BAXI	-65/150	0	500	80	0		
BK48ABAALL	UNISEM-INDONESIA	073503	R3	CY62137CVSL-70BAXI	-65/150	0	1000	80	0		
BK48BWALL	G-TAIWAN	MR073041	R1	CY7C1021CV33-10BAXI	-65/150	0	1000	79	0		
BK48CPBGL	G-TAIWAN	MR074056	R1	CY7C67200-48BAXIT	-65/150	0	500	80	0		
BK48CPBGL	G-TAIWAN	MR074056	R1	CY7C67200-48BAXIT	-65/150	0	1000	80	0		
BK48WBLL	G-ASE	MR082010	R1	CY7C1021CV33-10BAXI	-65/150	0	500	76	0		
BK48WBLL	G-ASE	MR082010	R1	CY7C1021CV33-10BAXI	-65/150	0	1000	75	0		
BK48DJALL	G	MR083050	R1	CY62177DV30LL-55BAXI	-65/150	0	500	80	0		
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)</b>			<b>12</b>	<b>records</b>							
<b>Sum</b>								<b>936</b>	<b>0</b>		
<b>FBGA (1.0-1.27)</b>											
BB100CAALE	G-ASE	MR081067	R1	CYP15G0101DXB-BBI	-65/150	0	500	80	0		
BB100CAALE	G-ASE	MR081067	R1	CYP15G0101DXB-BBI	-65/150	0	1000	80	0		
BB100EAALE	G-TAIWAN	MR082041	R1	CY7B994V-2BBI	-65/150	0	500	80	0		
BB100EAALE	G-TAIWAN	MR082041	R1	CY7B994V-2BBI	-65/150	0	1000	80	0		
BB144CALE	G-TAIWAN	NR072030	R1	CY7C08313AV-167BBC	-65/150	0	500	50	0		



BB144CALE	G-TAIWAN	NR072030	R1	CY7C08313AV-167BBC	-65/150	0	1000	50	0
BB144CALE	G-TAIWAN	NR072030	R2	CY7C0830AV-167BBC	-65/150	0	500	50	0
BB144CALE	G-TAIWAN	NR072030	R2	CY7C0830AV-167BBC	-65/150	0	1000	50	0
BB144CALE	G-TAIWAN	NR072030	R3	CY7C0837AV-167BBC	-65/150	0	500	48	0
BB144CALE	G-TAIWAN	NR072030	R3	CY7C0837AV-167BBC	-65/150	0	1000	48	0
BB165AVLE	CML-RA	MR074047	R1	CY7C1313BV18-250BZC	-65/150	0	500	80	0
BB165AVLE	RA-CML	MR074047	R1	CY7C1313BV18-250BZC	-65/150	0	1000	80	0
BB165AVLE	RA-CML	NR072019	R1	CY7C1313BV18-250BZC	-65/150	0	500	74	0
BB165AVLE	RA-CML	NR072019	R1	CY7C1313BV18-250BZC	-65/150	0	1000	74	0
BB165AVLE	RA-CML	NR072019	R2	CY7C1313BV18-250BZC	-65/150	0	1000	77	0
BB165AVLE	RA-CML	NR072019	R3	CY7C1313BV18-250BZC	-65/150	0	500	50	0
BB165AVLE	RA-CML	NR072019	R3	CY7C1313BV18-250BZC	-65/150	0	1000	49	0
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	-65/150	0	500	76	0
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	-65/150	0	1000	76	0
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	-65/150	0	500	77	0
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	-65/150	0	1000	77	0
BB172AAGE	G-TAIWAN	NR072027	R1	CY7C057V-15BBC	-65/150	0	500	50	0
BB172AAGE	G-TAIWAN	NR072027	R1	CY7C057V-15BBC	-65/150	0	1000	50	0
BB172AAGE	G-TAIWAN	NR072027	R2	CY7C057V-12BBC	-65/150	0	500	50	0
BB172AAGE	G-TAIWAN	NR072027	R2	CY7C057V-12BBC	-65/150	0	1000	50	0
BB172AAGE	G-TAIWAN	NR072027	R3	CY7C057V-15BBI	-65/150	0	500	50	0
BB172AAGE	G-TAIWAN	NR072027	R3	CY7C057V-15BBI	-65/150	0	1000	50	0
BB209BALE	G-TAIWAN	NR072022	R1	CY7C1474V33-167BGC	-65/150	0	1000	46	0
FBGA 165	AIT-Indonesia	73509	R1	CY7C1305BV25	-65/150	0	500	70	0
FBGA 165	AIT-Indonesia	73509	R1	CY7C1305BV25	-65/150	0	1000	70	0
FBGA 165	AIT-Indonesia	73509	R2	CY7C1305BV25	-65/150	0	500	77	0
FBGA 165	AIT-Indonesia	73509	R2	CY7C1305BV25	-65/150	0	1000	76	0
FBGA 165	AIT-Indonesia	73509	R3	CY7C1305BV25	-65/150	0	500	77	0
FBGA 165	AIT-Indonesia	73509	R3	CY7C1305BV25	-65/150	0	1000	77	0
FBGA 172	G-TAIWAN	73905	R1	CY7C0853AV	-65/150	0	500	80	0
FBGA 172	G-TAIWAN	73905	R1	CY7C0853AV	-65/150	0	1000	80	0
FBGA 172	G-TAIWAN	73905	R2	CY7C0853AV	-65/150	0	500	79	0
FBGA 172	G-TAIWAN	73905	R2	CY7C0853AV	-65/150	0	1000	79	0
FBGA 172	G-TAIWAN	73905	R3	CY7C0853AV	-65/150	0	500	80	0
FBGA 172	G-TAIWAN	73905	R3	CY7C0853AV	-65/150	0	1000	80	0

Summary for Package Family: FBGA (1.0)

Sum **40 records** **2,677** **0**

FBGA (1.0-1.27, Pb-free)

BW100AAALL	AIT-Indonesia	73507	R1	CYP15G0101DXB-BBXI	-65/150	0	500	77	0
BW100AAALL	AIT-Indonesia	73507	R1	CYP15G0101DXB-BBXI	-65/150	0	1000	77	0
BW100AAALL	AIT-Indonesia	73507	R2	CYP15G0101DXB-BBXI	-65/150	0	500	80	0
BW100AAALL	AIT-Indonesia	73507	R2	CYP15G0101DXB-BBXI	-65/150	0	1000	80	0

BW100AALL	AIT-Indonesia	73507	R3	CYP15G0101DXB-BBXI	-65/150	0	500	78	0
BW100AALL	AIT-Indonesia	73507	R3	CYP15G0101DXB-BBXI	-65/150	0	1000	78	0
BW100EAGL	G-TAIWAN	NR072018	R3	CYP15G0101DXB-BBXC	-65/150	0	1000	80	0
BW100EAGLE	G-TAIWAN	NR072033	R1	CYV15G0101DXB-BBXI	-65/150	0	500	45	0
BW100EAGLE	G-TAIWAN	NR072033	R1	CYV15G0101DXB-BBXI	-65/150	0	1000	45	0
BW100EAGLE	G-TAIWAN	NR072033	R2	CYV15G0101DXB-BBXC	-65/150	0	500	45	0
BW100EAGLE	G-TAIWAN	NR072033	R2	CYV15G0101DXB-BBXC	-65/150	0	1000	45	0

**Summary for Package Family: FBGA (1.0-1.27, Pb-free)**

**11 records**

**Sum** **730** **0**

**FLIPCHIP CSP (Pb-Free)**

FN81AGAN	AU - Amkor Taiwan	072207	R2	CYWB0124ABX-FDXIT	-65/150	0	1000	84	0
FN81BGAN	AU - Amkor Taiwan	080501	R1	CYWB0124ABX-FDXIT	-65/150	0	500	74	0
FN81BGAN	AU - Amkor Taiwan	080501	R1	CYWB0124ABX-FDXIT	-65/150	0	1000	74	0
FN81BGAN	AU - Amkor Taiwan	080501	R2	CYWB0124ABX-FDXIT	-65/150	0	500	82	0
FN81BGAN	AU - Amkor Taiwan	080501	R2	CYWB0124ABX-FDXIT	-65/150	0	1000	80	0
FN81BGAN	AU - Amkor Taiwan	080501	R3	CYWB0124ABX-FDXIT	-65/150	0	500	78	0
FN81BGAN	AU - Amkor Taiwan	080501	R3	CYWB0124ABX-FDXIT	-65/150	0	1000	77	0
FN81AGAN	AU	NR081001	R1	CYWB0124ABX-FNXIT	-65/150	0	500	88	0
FN81AGAN	AU	NR081001	R1	CYWB0124ABX-FNXIT	-65/150	0	1000	87	0
FN81AGAN	AU	NR081001	R2	CYWB0124ABX-FNXIT	-65/150	0	500	90	0
FN81AGAN	AU	NR081001	R2	CYWB0124ABX-FNXIT	-65/150	0	1000	86	0
FN81AGAN	AU	NR081001	R3	CYWB0124ABX-FNXIT	-65/150	0	500	89	0
FN81AGAN	AU	NR081001	R3	CYWB0124ABX-FNXIT	-65/150	0	1000	87	0
FN81AGAN	AU	NR081001	R4	CYWB0124ABX-FNXIT	-65/150	0	500	84	0
FN81AGAN	AU	NR081001	R4	CYWB0124ABX-FNXIT	-65/150	0	1000	79	0
FN81AGAN	AU	NR081001	R5	CYWB0124ABX-FNXIT	-65/150	0	500	84	0
FN81AGAN	AU	NR081001	R5	CYWB0124ABX-FNXIT	-65/150	0	1000	81	0
FN81AGAN	AU	NR081001	R6	CYWB0124ABX-FDXIT	-65/150	0	500	90	0
FN81AGAN	AU	NR081001	R6	CYWB0124ABX-FDXIT	-65/150	0	1000	89	0
FN81AGAN	AU	NR081001	R6A	CYWB0124ABX-FDXIT	-65/150	0	500	89	0
FN81AGAN	AU	NR081001	R6A	CYWB0124ABX-FDXIT	-65/150	0	1000	88	0
FN81AGAN	AU	NR081001	R7	CYWB0124ABX-FNXIT	-65/150	0	500	88	0
FN81AGAN	AU	NR081001	R7	CYWB0124ABX-FNXIT	-65/150	0	1000	88	0
FN81AGAN	AU	NR081001	R7A	CYWB0124ABX-FDXIT	-65/150	0	500	90	0
FN81AGAN	AU	NR081001	R7A	CYWB0124ABX-FDXIT	-65/150	0	1000	89	0

**Summary for Package Family: FLIPCHIP CSP (Pb-Free)**

**25 records**

**Sum** **2115** **0**

**PBGA (with Heat Spreader)**

BG119ABALE	UNISEM - Indonesia	073702	R1	CY7C1012SV33	-65/150	0	500	80	0
BG119ABALE	UNISEM - Indonesia	073702	R1	CY7C1012SV33	-65/150	0	1000	80	0
BG119ABALE	UNISEM- Indonesia	073702	R2	CY7C1012SV33	-65/150	0	500	80	0
BG119ABALE	UNISEM- Indonesia	073702	R2	CY7C1012SV33	-65/150	0	1000	79	0
BG119ABALE	UNISEM - Indonesia	073702	R3	CY7C1012AV33	-65/150	0	500	80	0
BG119ABALE	UNISEM - Indonesia	073702	R3	CY7C1012AV33	-65/150	0	1000	80	0
BG119SALE	G-TAIWAN	MR074032	R1	CY7C1354C-166BGC	-65/150	0	500	80	0
BG119SALE	G-TAIWAN	MR074032	R1	CY7C1354C-166BGC	-65/150	0	1000	80	0
BG119JALE	G-TAIWAN	MR081047	R1	CY7C1021AV33-8BGC	-65/150	0	500	80	0
BG119JALE	G-TAIWAN	MR081047	R1	CY7C1021AV33-8BGC	-65/150	0	1000	80	0
BG119SALE	G-ASE	MR082021	R1	CY7C1354C-166BGC	-65/150	0	500	80	0
BG119SALE	G-ASE	MR082021	R1	CY7C1354C-166BGC	-65/150	0	1000	80	0
BG119SALE	G-TAIWAN	MR083001	R1	CY7C1354C-166BGC	-65/150	0	500	80	0
BG119SALE	G-TAIWAN	MR083001	R1	CY7C1354C-166BGC	-65/150	0	1000	80	0

**Summary for Package Family: PBGA (with Heat Spreader)**

**14 records**  
**Sum** **1119** **0**

**PDIP**

P246DGAAGB	X-MMT	MR081066	R1	CY7C264-35PC	-65/150	0	500	79	0
P246DGAAGB	X-MMT	MR081066	R1	CY7C264-35PC	-65/150	0	1000	76	0

**Summary for Package Family: PDIP**

**2 records**  
**Sum** **155** **0**

**PDIP (Pb-Free)**

PZ183ABAGN	X-MMT	081906	R1	CS6632AF	-65/150	0	500	161	0
PZ183ABAGN	X-MMT	081906	R1	CS6632AF	-65/150	0	1000	161	0
PZ183ABAGN	X-MMT	081906	R1A	CS6632AF	-65/150	0	500	80	0
PZ183AXGN	O-IND	MR074015	R1	CS6632AF	-65/150	0	500	77	0
PZ183AXGN	O-INDS	MR081042	R1	CS6632AF	-65/150	0	1000	56	0
PZ183DAGN	RA-CML	MR081069	R1	CY7C63723C-PXC	-65/150	0	500	82	0
PZ183DAGN	RA-CML	MR081069	R1	CY7C63723C-PXC	-65/150	0	1000	82	0
PZ183DAGN	RA-CML	MR082065	R1	CY7C63723C-PXC	-65/150	0	500	80	1
PZ183DAGN	RA-CML	MR082065	R1	CY7C63723C-PXC	-65/150	0	1000	78	0
PZ183DBGN	RA-CML	MR083022	R1	CY7C63723C-PXC	-65/150	0	500	80	0
PZ183DBGN	RA-CML	MR083022	R1	CY7C63723C-PXC	-65/150	0	1000	80	0

MR082065-1T1 Lifted ball bond

**Summary for Package Family: PDIP (Pb-Free)**

**11 records**  
**Sum** **1017** **1**

**PLCC**

J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-15JC	-65/150	0	500	80	0
J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-15JC	-65/150	0	1000	80	0
J32RBGAAGB	MMT-X	MR081030	R1	CY7C4231V-15JC	-65/150	0	500	80	0
J32RBGAAGB	MMT-X	MR081030	R1	CY7C4231V-15JC	-65/150	0	1000	80	0
J32RBGAAGB	X-MMT	MR082017	R1	CY7B9911V-5JCT	-65/150	0	500	80	0
J32RBGAAGB	X-MMT	MR082017	R1	CY7B9911V-5JCT	-65/150	0	1000	80	0
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	-65/150	0	500	81	0
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	-65/150	0	1000	81	0

**Summary for Package Family: PLCC**

**8 records**  
**Sum** **642** **0**

**PLCC (Pb-Free)**

JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	-65/150	0	500	80	0
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	-65/150	0	1000	80	0
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	-65/150	0	500	80	0
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	-65/150	0	1000	80	0
JZ32RBGAN	M-PHILIPPINES	MR081063	R1	CY7B991-5JXC	-65/150	0	500	80	0
JZ32RBGAN	M-PHILIPPINES	MR081063	R1	CY7B991-5JXC	-65/150	0	1000	80	0

**Summary for Package Family: PLCC (Pb-Free)**

**6 records**

**Sum 480 0**

**PQFP (Pb-free)**

NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	-65/150	0	500	80	0
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	-65/150	0	1000	80	0
NZ52DXGAN	G-ASEK	MR081004	R1	CY7C136-55NXC	-65/150	0	500	80	0
NZ52DXGAN	G-ASEK	MR081004	R1	CY7C136-55NXC	-65/150	0	1000	80	0
NZ52DXGAN	G-ASE	MR082061	R1	CY7C131-25NXC	-65/150	0	500	80	0
NZ52DXGAN	G-ASE	MR082061	R1	CY7C131-25NXC	-65/150	0	1000	80	0
NZ52DXGAN	G-TAIWAN	NR072014	R10	CY7C136-55NXC	-65/150	0	1000	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R11	CY7C136-25NXC	-65/150	0	500	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R12	CY7C136-55NXC	-65/150	0	500	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R12	CY7C136-55NXC	-65/150	0	1000	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R13	CY7C136-55NXC	-65/150	0	500	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R13	CY7C136-55NXC	-65/150	0	1000	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R8	CY7C136-25NXC	-65/150	0	1000	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R9	CY7C136-55NXC	-65/150	0	1000	13	0

**Summary for Package Family: PQFP (Pb-free)**

**14 records**

**Sum 598 0**

**QFN (Open Cavity, Pb-free)**

LB42ABALL	R-CML	NR081004	R1	CYONS10810-LBXC	-65/150	0	500	77	0
LB42ABALL	R-CML	NR081004	R2	CYONS10810-LBXC	-40		500	77	0
LB42ABALL	R-CML	NR081004	R3	CYONS10810-LBXC	-40		500	76	0

**Summary for Package Family: QFN (Open Cavity, Pb-free)**

**3 records**

**Sum 230 0**

**QFN (0.4mm, Saw Type, Pb-free)**

LN32AAAAAL	CA-Malaysia	82008	R1	CY8C21434-24LCXI	-65/150	0	500	77	0
LN32AAAAAL	CA-Malaysia	82008	R1	CY8C21434-24LCXI	-65/150	0	1000	75	0
LN32AAAAAL	CA-Malaysia	82008	R2	CY821434-24LCXI	-65/150	0	500	77	0
LN32AAAAAL	CA-Malaysia	82008	R2	CY821434-24LCXI	-65/150	0	1000	77	0
LN32AAAAAL	CA-Malaysia	82008	R3	CY821434-24LCXI	-65/150	0	500	80	0
LN32AAAAAL	CA-Malaysia	82008	R3	CY821434-24LCXI	-65/150	0	1000	79	0

**Summary for Package Family : QFN (0.4mm, Saw Type, Pb-free)**

**6 records**

**Sum 465 0**

**QFN (0.6mm, Punch Type, Pb-Free)**

LK32AABAGL	L-KOREA	MR074006	R1	CY8C20434-12LKXI	-65/150	0	500	77	0
LK32AABAGL	L-KOREA	MR074006	R1	CY8C20434-12LKXI	-65/150	0	1000	76	0
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	-65/150	0	500	78	0
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	-65/150	0	1000	77	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	-65/150	0	500	80	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	-65/150	0	1000	75	0
LK32AABAGL	L-KOREA	MR081039	R1	CY8C20434-12LKXI	-65/150	0	500	78	0
LK32AABAGL	L-KOREA	MR081039	R1	CY8C20434-12LKXI	-65/150	0	1000	69	0

LK32AABAGL	L-KOREA	MR082022	R1	CY8C20434-12LKXI	-65/150	0	500	80	0		
LK32AABAGL	L-KOREA	MR082022	R1	CY8C20434-12LKXI	-65/150	0	1000	80	0		
LK32AABAGL	L-KOREA	MR083006	R1	CY8C20424-12LKXI	-65/150	0	500	80	0		
LK32AABAGL	L-KOREA	MR083006	R1	CY8C20424-12LKXI	-65/150	0	1000	80	0		
LK32AABAGL	L-KOREA	NR072004	R1	CY8C20434-12LKXI	-65/150	0	500	80	0		
LK32AABAGL	L-KOREA	NR072004	R1	CY8C20434-12LKXI	-65/150	0	1000	80	0		
LK32AABAGL	L-KOREA	NR072004	R2	CY8C20424-12LKXI	-65/150	0	500	80	0		
LK32AABAGL	L-KOREA	NR072004	R2	CY8C20424-12LKXI	-65/150	0	1000	80	0		
LK32AABAGL	L-KOREA	NR072004	R3	CP6683AM	-65/150	0	500	80	0		
LK32AABAGL	L-KOREA	NR072004	R3	CP6683AM	-65/150	0	1000	79	0		
LK32AABAGL	L-Seoul	RR083004	R1	CY8C20434-12LKXI	-65/150	0	300	192	0		
LK32AABAGL	L-Seoul	RR083004	R1	CY8C20434-12LKXI	-65/150	0	500	192	0		
LK32AABAGL	L-Seoul	RR083004	R1	CY8C20434-12LKXI	-65/150	0	800	192	0		
LK32AABAGL	L-Seoul	RR083004	R2	CY8C20434-12LKXI	-65/150	0	100	200	0		
LK32AABAGL	L-Seoul	RR083004	R2	CY8C20434-12LKXI	-65/150	0	300	200	0		
LK32AABAGL	L-Seoul	RR083004	R2	CY8C20434-12LKXI	-65/150	0	500	198	0		
LK32AABAGL	L-Seoul	RR083004	R2	CY8C20434-12LKXI	-65/150	0	800	188	0		
LK32AABAGL	L-Seoul	RR083004	R2	CY8C20434-12LKXI	-65/150	0	1000	167	0		
LK32AABAGL	L-Seoul	RR083004	R3	CY8C20434-12LKXI	-65/150	0	100	196	0		
LK32AABAGL	L-Seoul	RR083004	R3	CY8C20434-12LKXI	-65/150	0	300	196	0		
LK32AABAGL	L	RR083004	R4	CY8C20434-12LKXI	-65/150	0	100	199	0		
LK32AABAGL	L	RR083004	R4	CY8C20434-12LKXI	-65/150	0	300	199	0		
LK32AABAGL	L-Seoul	RR083004	R6	CY8C20434-12LKXI	-65/150	0	100	200	0		
LK32AABAGL	L-Seoul	RR083004	R6	CY8C20434-12LKXI	-65/150	0	300	199	1	RR083004-6T2	Broken wedge
LK32AABAGL	L-Seoul	RR083004	R6	CY8C20434-12LKXI	-65/150	0	500	194	7	RR083004-6T3	Broken wedge
LK32AABAGL	L-Seoul	RR083004	R6	CY8C20434-12LKXI	-65/150	0	800	149	0		
LK32AABAGL	L-Seoul	RR083004	R6	CY8C20434-12LKXI	-65/150	0	1000	124	0		
LK32AABAGL	L-SEOUL KOREA	RR083009	R1	CY8C20434-12LKXI	-65/150	0		400	0		

Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)

36 records

Sum 4994 8

QFN (0.6mm, Saw Type, Pb-Free)

LQ24ACAAL	UNISEM-Indonesia	072103	R1	CY7C68003-24LQXIEST	-65/150	0	500	76	0		
LQ24ACAAL	UNISEM-Indonesia	072103	R1	CY7C68003-24LQXIEST	-65/150	0	1000	74	0		
LQ24ACAAL	UNISEM-Indonesia	072804	R1	CY7C68003-24LQXIEST	-65/150	0	500	76	0		
LQ24ACAAL	UNISEM-Indonesia	072804	R1	CY7C68003-24LQXIEST	-65/150	0	1000	74	0		
LQ24ACAAL	UNISEM-Indonesia	072804	R2	CY7C68003-24LQXIEST	-65/150	0	500	78	0		
LQ24ACAAL	UNISEM-Indonesia	072804	R2	CY7C68003-24LQXIEST	-65/150	0	1000	78	0		
LQ24ACALL	UNISEM-Indonesia	072804	R3	CY7C68003-24LQXI	-65/150	0	500	79	0		
LQ24ACALL	UNISEM-Indonesia	072804	R3	CY7C68003-24LQXI	-65/150	0	1000	79	0		
LQ32CCAAL	Carsem Malaysia	072908	R1	CY8C21434-24LQXI	-65/150	0	1000	77	0		
LQ32CCAAL	Carsem Malaysia	072908	R2	CY8C21434-24LQXI	-65/150	0	1000	75	0		
LQ32CCAAL	Carsem Malaysia	072908	R3	CY8C21434-24LQXI	-65/150	0	1000	77	0		
LQ32DAGLL	CA-MALAYSIA	082602	R1	CY8C23533-24LQXI	-65/150	0	500	80	0		
LQ32DAGLL	CA-MALAYSIA	082602	R1	CY8C23533-24LQXI	-65/150	0	1000	80	0		
LQ32DAGLL	CA-MALAYSIA	082602	R2	CY8C23533-24LQXI	-65/150	0	500	80	0		
LQ32DAGLL	CA-MALAYSIA	082602	R2	CY8C23533-24LQXI	-65/150	0	1000	80	0		
LQ32DAGLL	CA-MALAYSIA	082602	R3	CY8C23533-24LQXI	-65/150	0	500	80	0		

LQ32DAGLL	CA-MALAYSIA	082602	R3	CY8C23533-24LQXI	-65/150	0	1000	80	0
LQ24ABAAL	AT-INDONESIA	MR074008	R1	CP6705ATT	-65/150	0	500	80	0
LQ24ABAAL	AT-INDONESIA	MR074008	R1	CP6705ATT	-65/150	0	1000	80	0
LQ24ABAAL	AIT-INDS	MR081014	R1	CY8C20334-12LQXI	-65/150	0	500	79	0
LQ24ABAAL	AIT-INDS	MR081014	R1	CY8C20334-12LQXI	-65/150	0	1000	79	0
LQ24ABAAL	AT-INDNS	MR082030	R1	CY8C20334-12LQXI	-65/150	0	500	80	0
LQ24ABAAL	AT-INDNS	MR082030	R1	CY8C20334-12LQXI	-65/150	0	1000	80	0
LQ24ABAAL	AT-THAILAND	MR083053	R1	CY8C20324-12LQXI	-65/150	0	500	80	0
LQ24ABAAL	AT-INDONESIA	NR073002	R1	CP6705ATT	-65/150	0	500	80	0
LQ24ABAAL	AT-INDONESIA	NR073002	R1	CP6705ATT	-65/150	0	1000	79	0
LQ24ABAAL	AT-INDONESIA	NR073002	R2	CP6705AT	-65/150	0	500	80	0
LQ24ABAAL	AT-INDONESIA	NR073002	R2	CP6705AT	-65/150	0	1000	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R1	CY8C20334-12LQXI	-65/150	0	500	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R1	CY8C20334-12LQXI	-65/150	0	1000	79	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R2	CY8C20334-12LQXI	-65/150	0	500	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R2	CY8C20334-12LQXI	-65/150	0	1000	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R3	CP6785AM	-65/150	0	500	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R3	CP6785AM	-65/150	0	1000	80	0

**Summary for Package Family: QFN (0.6mm, Saw Type, Pb-Free) 34 records**

**Sum 2679 0**

**QFN (COL, 0.6mm, Saw Type, Pb-free)**

LG16AAAAAL	M-Amkor	073904	R1	CY8C20234-12LKXI	-65/150	0	500	76	0
LG16AAAAAL	M-Amkor	073904	R1	CY8C20234-12LKXI	-65/150	0	1000	76	0
LG16AAAAAL	M-Amkor	073904	R2	CY8C20234-12LKXI	-65/150	0	500	77	0
LG16AAAAAL	M-Amkor	073904	R2	CY8C20234-12LKXI	-65/150	0	1000	77	0
LG16AAAAAL	M-Amkor	073904	R3	CY8C20234-12LKXI	-65/150	0	500	74	0
LG16AAAAAL	M-Amkor	073904	R3	CY8C20234-12LKXI	-65/150	0	1000	73	0
LG16AAAAAL	M-Manila	080502	R1	CY8C20234-12LKXIT	-65/150	0	500	75	0
LG16AAAAAL	M-Manila	080502	R1	CY8C20234-12LKXIT	-65/150	0	1000	75	0
LG16AAAAAL	M-Manila	080502	R2	CY8C20234-12LKXIT	-65/150	0	500	76	0
LG16AAAAAL	M-Manila	080502	R2	CY8C20234-12LKXIT	-65/150	0	1000	76	0
LG16AAAAAL	M-Manila	080502	R3	CY8C20234-12LKXIT	-65/150	0	500	77	0
LG16AAAAAL	M-Manila	080502	R3	CY8C20234-12LKXIT	-65/150	0	1000	76	0
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	-65/150	0	500	80	0
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	-65/150	0	1000	73	0
LG16AAAAAL	M-PHILS	MR081027	R1	CY8C20234-12LKXI	-65/150	0	500	80	0
LG16AAAAAL	M-PHILS	MR081027	R1	CY8C20234-12LKXI	-65/150	0	1000	80	0
LG16AAAAAL	M-PHILS	MR082028	R1	CY8C20234-12LKXI	-65/150	0	500	80	0
LG16AAAAAL	M-PHILS	MR082028	R1	CY8C20234-12LKXI	-65/150	0	1000	80	0
LG16AAAAAL	M-PHILS	MR083048	R1	CY8C20122-LDX2I	-65/150	0	500	79	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R1	CY8C20234-12LKXIT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R1	CY8C20234-12LKXIT	-65/150	0	1000	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R10	CY8C20122-LDX2IT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R10	CY8C20122-LDX2IT	-65/150	0	1000	76	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R11	CP6824ATT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R11	CP6824ATT	-65/150	0	1000	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R2	CY8C20234-12LKXIT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R2	CY8C20234-12LKXIT	-65/150	0	1000	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R3	CY8C20234-12LKXIT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R3	CY8C20234-12LKXIT	-65/150	0	1000	77	0

LG16AAAAAL	M-PHILIPPINES	NR082004	R4	CY8C20110-LDX2I	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R4	CY8C20110-LDX2I	-65/150	0	1000	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R6	CP6824ATT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R6	CP6824ATT	-65/150	0	1000	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R7	CP6824ATT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R7	CP6824ATT	-65/150	0	1000	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R8	CP6824ATT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R8	CP6824ATT	-65/150	0	1000	74	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R9	CP6824ATT	-65/150	0	500	77	0
LG16AAAAAL	M-PHILIPPINES	NR082004	R9	CP6824ATT	-65/150	0	1000	77	0

Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free)

39 records

Sum 2996 0

QFN (Punch Type, Pb-Free)

LY56AGAGL	L-KOREA	070901	R1	CY7C65630-56LFXC	-65/150	0	1000	85	0
LY56AGAGL	L-KOREA	070901	R2	CY7C65630-56LFXC	-65/150	0	1000	85	0
LY32AAAGR	L - Korea	080907	R3	CY8C21434-24LFXI	-65/150	0	500	79	0
LY32BGAGL	RA	083604	R1	CY8C21434-24LFXI	-65/150	0	500	80	0
LY32BGAGL	RA	083604	R1	CY8C21434-24LFXI	-65/150	0	1000	79	0
LY32BGAGL	RA	083604	R2	CY8C21434-24LFXI	-65/150	0	500	80	0
LY32BGAGL	RA	083604	R2	CY8C21434-24LFXI	-65/150	0	1000	80	0
LY32BGAGL	RA	083604	R3	CY8C21434-24LFXI	-65/150	0	500	80	0
LY32BGAGL	RA	083604	R3	CY8C21434-24LFXI	-65/150	0	1000	80	0
LY32BGAGL	RA-CML	083905	R1	CY8C21434-24LFXI	-65/150	0	500	80	0
LY32BGAGL	RA-CML	083905	R1	CY8C21434-24LFXI	-65/150	0	1000	80	0
LY32BGAGL	RA-CML	083905	R2	CY8C21434-24LFXI	-65/150	0	500	75	0
LY32BGAGL	RA-CML	083905	R2	CY8C21434-24LFXI	-65/150	0	1000	75	0
LY32BGAGL	RA-CML	083905	R3	CY8C21434-24LFXI	-65/150	0	500	80	0
LY32BGAGL	RA-CML	083905	R3	CY8C21434-24LFXI	-65/150	0	1000	80	0
LY56AGAGL	L-KOREA	MR073056	R1	CY7C65630-56LFCT	-65/150	0	1000	24	0
LY56AGAGL	L-KOREA	MR073056	R1	CY7C65630-56LFCT	-65/150	0	1000	56	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	-65/150	0	500	80	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	-65/150	0	1000	80	0
LY32AAAGR	L-KOREA	MR081013	R1	CY8C21434-24LFXI	-65/150	0	500	79	0
LY32AAAGR	L-KOREA	MR081013	R1	CY8C21434-24LFXI	-65/150	0	1000	79	0
LY56AGAGL	L-KOREA	MR081028	R1	CY7C65630-56LFXC	-65/150	0	500	80	0
LY56AGAGL	L-KOREA	MR081028	R1	CY7C65630-56LFXC	-65/150	0	1000	80	0
LY56AGAGL	L-KOREA	MR082031	R1	CY7C65630-56LFXC	-65/150	0	500	80	0
LY56AGAGL	L-KOREA	MR082031	R1	CY7C65630-56LFXC	-65/150	0	1000	80	0
LY32AAAGR	L-KOREA	MR082048	R1	CG6672AMT	-65/150	0	500	80	0
LY32AAAGR	L-KOREA	MR082048	R1	CG6672AMT	-65/150	0	1000	80	0

Summary for Package Family: QFN (Punch Type, Pb-free)

27 records

Sum 2076 0

QFN (Saw Type, Pb-free)

LT56BAAAGL	UNISEM-Indonesia	073701	R1	CY7C65640A-LSXC	-65/150	0	500	77	0
LT56BAAAGL	UNISEM-Indonesia	073701	R1	CY7C65640A-LSXC	-65/150	0	1000	77	0
LT56BAAAGL	UNISEM-Indonesia	073701	R2	CY7C65640A-LSXC	-65/150	0	500	76	0
LT56BAAAGL	UNISEM-Indonesia	073701	R2	CY7C65640A-LSXC	-65/150	0	1000	76	0
LT56BAAAGL	UNISEM-Indonesia	073701	R3	CY7C65640A-LSXC	-65/150	0	500	77	0

LT56BAAAGL	UNISEM-Indonesia	073701	R3	CY7C65640A-LSXC	-65/150	0	1000	77	0
LT32BAAAGL	CA-MALAYSIA	074701	R1	CY8C21434-24LTXI	-65/150	0	500	80	0
LT32BAAAGL	CA-MALAYSIA	074701	R2	CY8C21434-24LTXI	-65/150	0	500	80	0
LT32BAAAGL	CA-MALAYSIA	074701	R3	CY8C21434-24LTXI	-65/150	0	500	80	0
LT32BGAGL	RA-CML	082902	R1	CY8C21434-24LTXI	-65/150	0	500	79	0
LT32BGAGL	RA-CML	082902	R1	CY8C21434-24LTXI	-65/150	0	1000	79	0
LT32BGAGL	RA-CML	082902	R3	CY8C21434-24LTXI	-65/150	0	500	80	0
LT32BGAGL	RA-CML	082902	R3	CY8C21434-24LTXI	-65/150	0	1000	80	0
LT32BAAAGL	CA-THAILAND	MR083038	R1	CG7032AA	-65/150	0	500	80	0
LT32BAAAGL	CA-THAILAND	MR083038	R1	CG7032AA	-65/150	0	1000	80	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R1	CY8C21434-24LTXI	-65/150	0	500	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R1	CY8C21434-24LTXI	-65/150	0	1000	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R2	CY8C21434-24LTXI	-65/150	0	500	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R2	CY8C21434-24LTXI	-65/150	0	1000	77	0
LT32BAAGL	CA-MALAYSIA	NR082002	R3	CY8C21434-24LTXI	-65/150	0	500	76	0
LT32BAAGL	CA-MALAYSIA	NR082002	R3	CY8C21434-24LTXI	-65/150	0	1000	76	0
<b>Summary for Package Family: QFN (Saw Type, Pb-free)</b>			<b>21</b>	<b>records</b>					
<b>Sum</b>							<b>1638</b>	<b>0</b>	
<b>QSOP (Pb-Free)</b>									
SQ2414AGN	R-CML	MR073054	R1	CY7C63823-QXC	-65/150	0	1000	80	0
SQ2414AGN	R-CML	MR081031	R1	CY7C63723-QXC	-65/150	0	500	80	0
SQ2414AGN	R-CML	MR081031	R1	CY7C63723-QXC	-65/150	0	1000	79	0
SQ2414AGN	R-CML	MR082036	R1	CY7C63823-QXC	-65/150	0	500	73	0
SQ2414AGN	R-CML	MR082036	R1	CY7C63823-QXC	-65/150	0	1000	73	0
SQ2414ABGN	R-CML	MR083023	R1	CY7C63743C-QXC	-65/150	0	500	80	0
SQ2414ABGN	R-CML	MR083023	R1	CY7C63743C-QXC	-65/150	0	1000	79	0
<b>Summary for Package Family: QSOP (Pb-Free)</b>			<b>7</b>	<b>records</b>					
<b>Sum</b>							<b>544</b>	<b>0</b>	
<b>RTSOP (Pb-free)</b>									
ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	-65/150	0	1000	80	0
ZY28R2ALN	R-CML	MR083030	R1	CY62256VNLL-70ZRXIT	-65/150	0	500	79	0
ZY28R2ALN	R-CML	MR083030	R1	CY62256VNLL-70ZRXIT	-65/150	0	1000	79	0
<b>Summary for Package Family: RTSOP (Pb-free)</b>			<b>3</b>	<b>records</b>					
<b>Sum</b>							<b>238</b>	<b>0</b>	
<b>SNC (Pb-Free)</b>									
SY2831BBLN	R-CML	081203	R1	CY62256LL-55SNXI	-65/150	0	500	112	0
SY2831BBLN	R-CML	081203	R1	CY62256LL-55SNXI	-65/150	0	1000	112	0
SY2831BBLN	R-CML	081203	R1A	CY62256LL-55SNXI	-65/150	0	500	112	0
SY2831BBLN	R-CML	081203	R1A	CY62256LL-55SNXI	-65/150	0	1000	112	0
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	-65/150	0	500	80	0
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	-65/150	0	1000	80	0
SY2831BBLN	R-CML	MR081048	R1	CY62256NLL-55SNXI	-65/150	0	500	80	0
SY2831BBLN	R-CML	MR081048	R1	CY62256NLL-55SNXI	-65/150	0	1000	80	0
SY2831BBLN	R-CML	MR081059	R1	CY62256NLL-55SNXI	-65/150	0	500	80	0
SY2831BBLN	R-CML	MR081059	R1	CY62256NLL-55SNXI	-65/150	0	1000	80	0
SY2831BBLN	R-CML	MR082037	R1	CY62256NLL-70SNXC	-65/150	0	500	80	0
SY2831BBLN	R-CML	MR082037	R1	CY62256NLL-70SNXC	-65/150	0	1000	80	0
SY2831BBLN	R-CML	MR083016	R1	CY62256NLL-70SNXCT	-65/150	0	500	81	0
SY2831BBLN	R-CML	MR083016	R1	CY62256NLL-70SNXCT	-65/150	0	1000	81	0



**Summary for Package Family: SNC (Pb-Free)**

**14 records**

							<b>Sum</b>	<b>1250</b>	<b>0</b>
<b>SOIC</b>									
S0815BAAGB	O-OMEDATA	MR074054	R1	CY2304SI-1T	-65/150	0	1000	77	0
S0815KAGB	M-Phils	MR074062	R1	CY2302SC-1T	-65/150	0	500	79	0
S0815KAGB	M-Phils	MR074062	R1	CY2302SC-1T	-65/150	0	1000	79	0
S0815PAGN	CML-RA	MR081010	R1	CY2305SC-1H	-65/150	0	500	80	0
S0815PAGN	CML-RA	MR081010	R1	CY2305SC-1H	-65/150	0	1000	80	0
S1615EAGB	M-PHILS	MR082014	R1	CY2309SC-1H	-65/150	0	500	80	0
S1615EAGB	M-PHILS	MR082014	R1	CY2309SC-1H	-65/150	0	1000	80	0
S1615EAGB	M	MR083010	R1A	CY2292SL-1V1	-65/150	0	100	72	0
S1615EAGB	M	MR083010	R1A	CY2292SL-1V1	-65/150	0	300	70	0
S1615EAGB	M	MR083010	R1A	CY2292SL-1V1	-65/150	0	500	69	0

**Summary for Package Family: SOIC**

**10 records**

							<b>Sum</b>	<b>766</b>	<b>0</b>
<b>SOIC (J-Lead)</b>									
V284CGAGGB	O-OMEDATA	081102	R1	CY7C107BN-15VCT	-65/150	0	1000	77	0
V284CGAGGB	O-OMEDATA	081102	R2	CY7C107BN-15VCT	-65/150	0	500	77	0
V284CGAGGB	O-INDS	MR073017	R1	CY7C107BN-15VC	-65/150	0	1000	77	0
V284CGAGGB	O-IND	MR074014	R1	CY7C107BN-15VCT	-65/150	0	500	77	0
V284CGAGGB	O-IND	MR074014	R1	CY7C107BN-15VCT	-65/150	0	1000	77	0
V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	-65/150	0	500	80	0
V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	-65/150	0	1000	80	0

**Summary for Package Family: SOIC (J-Lead)**

**7 records**

							<b>Sum</b>	<b>545</b>	<b>0</b>
<b>SOIC (J-Lead, Pb-Free)</b>									
VZ28312KLL	R-CML	074202	R3	CY7C199D-10VXI	-65/150	0	500	112	0
VZ3648GALL	R-CML	074202	R4	CY7C1049DV33-10VXI	-65/150	0	500	80	0
VZ3648GALL	R-CML	074202	R4	CY7C1049DV33-10VXI	-65/150	0	1000	80	0
VZ3646GLL	CML-RA	AR0730001	R1	NA	-65/150	0	1000	17	0
VZ3646GLL	R-CML	AR0739005	R1	CY7C1049CV33-10VXCT	-65/150	0	500	17	0
VZ3646GLL	R-CML	AR0739005	R1	CY7C1049CV33-10VXCT	-65/150	0	1000	17	0
VZ3646BGLL	R-CML	AR0742002	R1	CY7C1049CV33-10VXCT	-65/150	0	500	17	0
VZ3646BGLL	R-CML	AR0742002	R1	CY7C1049CV33-10VXCT	-65/150	0	1000	17	0
VZ3646BGLL	R-CML	AR0745001	R1	CY7C1049CV33-10VXCT	-65/150	0	500	13	0
VZ3646BGLL	R-CML	AR0745001	R1	CY7C1049CV33-10VXCT	-65/150	0	1000	13	0
VZ3648BGLL	R-CML	AR0749001	R1	CY7C1049CV33-10VXCT	-65/150	0	500	13	0
VZ3648BGLL	R-CML	AR0749001	R1	CY7C1049CV33-10VXCT	-65/150	0	1000	13	0
VZ3646BGLL	R-CML	AR0805001	R1	CY7C1049CV33-10VXC	-65/150	0	500	17	0
VZ3646BGLL	R-CML	AR0805001	R1	CY7C1049CV33-10VXC	-65/150	0	1000	16	0
VZ3646BGLL	R-CML	AR0806003	R1	CY7C1049CV33-10VXCT	-65/150	0	500	11	0
VZ3646BGLL	R-CML	AR0806003	R1	CY7C1049CV33-10VXCT	-65/150	0	1000	11	0
VZ3648GBLL	R-CML	AR0814004	R1	CY7C1049DV33-10VXI	-65/150	0	500	11	0
VZ3648GBLL	R-CML	AR0814004	R1	CY7C1049DV33-10VXI	-65/150	0	1000	11	0
VZ3646BGLL	R-CML	AR0820004	R1	CY7C1049CV33-10VXC	-65/150	0	426	17	0
VZ3646BGLL	R-CML	AR0820004	R1	CY7C1049CV33-10VXC	-65/150	0	500	17	0
VZ3646BGLL	R-CML	AR0820004	R1	CY7C1049CV33-10VXC	-65/150	0	800	17	0
VZ3646BGLL	R-CML	AR0820004	R1	CY7C1049CV33-10VXC	-65/150	0	1000	17	0
VZ2439AGS	O-INDS	MR073016	R1	CY7C187-25VXC	-65/150	0	1000	77	0
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	-65/150	0	500	80	0

VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	-65/150	0	1000	80	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	-65/150	0	500	79	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	-65/150	0	1000	79	0
VZ32420GLL	R-CML	MR081008	R1	CY7C109D-10VXI	-65/150	0	500	80	0
VZ32420GLL	R-CML	MR081008	R1	CY7C109D-10VXI	-65/150	0	1000	80	0
VZ28311BLL	CML-R	MR081033	R1	CY7C1399BN-12VXI	-65/150	0	500	80	0
VZ28311BLL	CML-R	MR081033	R1	CY7C1399BN-12VXI	-65/150	0	1000	80	0
VZ444WAGL	R-CML	MR081050	R1	CY7C1021B-12VXC	-65/150	0	500	80	0
VZ444WAGL	R-CML	MR081050	R1	CY7C1021B-12VXC	-65/150	0	1000	80	0
VZ3646BGLL	R-CML	MR082009	R1	CY7C1049CV33-10VXC	-65/150	0	500	80	0
VZ3646BGLL	R-CML	MR082009	R1	CY7C1049CV33-10VXC	-65/150	0	1000	80	0
VZ28313BLN	R-CML	MR082056	R1	CY7C1399BN-12VXC	-65/150	0	500	80	0
VZ28313BLN	R-CML	MR082056	R1	CY7C1399BN-12VXC	-65/150	0	1000	80	0
VZ28313BLN	R-CML	MR083003	R1	CY7C1399BN-12VXC	-65/150	0	500	80	0
VZ28313BLN	R-CML	MR083003	R1	CY7C1399BN-12VXC	-65/150	0	1000	80	0
VZ444AABLL	R-CML	MR083035	R1	CY7C1021DV33-10VXI	-65/150	0	500	78	0
VZ444AABLL	R-CML	MR083035	R1	CY7C1021DV33-10VXI	-65/150	0	1000	77	0
VZ2845ALL	O-OMEDATA	NR072008	R1	CY7C106D-10VXI	-65/150	0	500	50	0
VZ2845ALL	O-OMEDATA	NR072008	R1	CY7C106D-10VXI	-65/150	0	1000	50	0
VZ2845ALL	O-OMEDATA	NR072008	R2	CY7C106D-10VXI	-65/150	0	500	50	0
VZ2845ALL	O-OMEDATA	NR072008	R2	CY7C106D-10VXI	-65/150	0	1000	50	0
VZ2845ALL	O-OMEDATA	NR072008	R3	CY7C107D-10VXI	-65/150	0	500	50	0
VZ2845ALL	O-OMEDATA	NR072008	R3	CY7C107D-10VXI	-65/150	0	1000	50	0

Summary for Package Family: SOIC (J-Lead, Pb-Free) 47 records 2364 0

Sum

**SOIC (Pb-Free)**

SZ815CGAN	M - Manila	080803	R1	CY2305CSXI-1H	-65/150	0	500	85	0
SZ815CGAN	M - Manila	080803	R1	CY2305CSXI-1H	-65/150	0	1000	75	0
SZ815CGAN	M - Manila	080803	R2	CY2305CSXI-1H	-65/150	0	500	80	0
SZ815CGAN	M - Manila	080803	R2	CY2305CSXI-1H	-65/150	0	1000	80	0
SZ815CGAN	M - Manila	080803	R3	CY2305CSXI-1H	-65/150	0	500	80	0
SZ815CGAN	M - Manila	080803	R3	CY2305CSXI-1H	-65/150	0	1000	80	0
SZ324516BL	R-CML	081207	R1	CY62148DV30LL-50SXI	-65/150	0	500	96	0
SZ324516BL	R-CML	081207	R1	CY62148DV30LL-50SXI	-65/150	0	1000	96	0
SZ1615DGN	M-Amkor	081907	R1	CY2309CSXI-1H	-65/150	0	500	79	0
SZ1615DGN	M-Amkor	081907	R2	CY2309CSXC	-65/150	0	500	76	0
SZ815CGAN	M-Amkor	081907	R3	CY23EP05SXI-1H	-65/150	0	500	80	0
SZ815CGAN	M-Amkor	081907	R3	CY23EP05SXI-1H	-65/150	0	1000	80	0
SZ1615NAGN	CA-MALAYSIA	082203	R1	CY8C20180-SX2I	-65/150	0	500	80	0
SZ1615NAGN	CA-MALAYSIA	082203	R1	CY8C20180-SX2I	-65/150	0	1000	80	0
SZ1615NAGN	CA-MALAYSIA	082203	R2	CY8C20180-SX2I	-65/150	0	500	80	0
SZ1615NAGN	CA-MALAYSIA	082203	R2	CY8C20180-SX2I	-65/150	0	1000	80	0
SZ1615NAGN	CA-MALAYSIA	082203	R3	CY8C20180-SX2I	-65/150	0	500	80	0
SZ1615NAGN	CA-MALAYSIA	082203	R3	CY8C20180-SX2I	-65/150	0	1000	79	0
SZ32457LN	R-CML	AR0729003	R1	CG6707AM	-65/150	0	1000	17	0
SZ183CGAN	RA-CML	AR0730021	R1	CY7C63723C-SXC	-65/150	0	500	17	0
SZ183CGAN	RA-CML	AR0730021	R1	CY7C63723C-SXC	-65/150	0	1000	17	0
SZ183CGAN	RA-CML	AR0730039	R1	CY7C63723C-SXC	-65/150	0	500	20	0
SZ183CGAN	RA-CML	AR0730039	R1	CY7C63723C-SXC	-65/150	0	1000	20	0

SZ183CGAN	RA-CML	AR0730041	R1	CY7C63231A-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0730041	R1	CY7C63231A-SXC	-65/150	0	1000	20	0		
SZ183CGAN	RA-CML	AR0731042	R1	CY7C63723C-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0731042	R1	CY7C63723C-SXC	-65/150	0	1000	20	0		
SZ183CGAN	RA-CML	AR0731045	R1	CY7C63231A-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0731045	R1	CY7C63231A-SXC	-65/150	0	1000	20	0		
SZ183CGAN	RA-CML	AR0736043	R1	CY7C63723C-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0736043	R1	CY7C63723C-SXC	-65/150	0	1000	17	0		
SZ183CGAN	RA-CML	AR0736051	R1	CY7C63723C-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0736051	R1	CY7C63723C-SXC	-65/150	0	1000	17	0		
SZ183CGAN	RA-CML	AR0737019	R1	CY7C63231A-SXC	-65/150	0	500	17	0		
SZ183CGAN	RA-CML	AR0737019	R1	CY7C63231A-SXC	-65/150	0	1000	16	0		
SZ183CGAN	RA-CML	AR0745018	R1	CY7C63723C-SXC	-65/150	0	500	16	0		
SZ183CGAN	RA-CML	AR0745018	R1	CY7C63723C-SXC	-65/150	0	1000	12	0		
SZ815PAGN	RA-CML	AR0747009	R1	CY25560SXCT	-65/150	0	500	17	0		
SZ815PAGN	RA-CML	AR0747009	R1	CY25560SXCT	-65/150	0	1000	17	0		
SZ324513N	R-CML	AR0748004	R1	CP5789EM	-65/150	0	500	17	0		
SZ324513N	R-CML	AR0748004	R1	CP5789EM	-65/150	0	1000	16	0		
SZ32457BLN	R-CML	AR0808005	R1	CY62128ELL-45SXI	-65/150	0	500	17	0		
SZ32457BLN	R-CML	AR0808005	R1	CY62128ELL-45SXI	-65/150	0	1000	17	0		
SZ815PAGN	RA-CML	AR0810016	R1	CY25814SXCT	-65/150	0	500	20	0		
SZ815PAGN	RA-CML	AR0810016	R1	CY25814SXCT	-65/150	0	1000	19	0		
SZ324513BN	R-CML	AR0816001	R1	CY7C53120E2-10SXI	-65/150	0	500	17	0		
SZ324513BN	R-CML	AR0816001	R1	CY7C53120E2-10SXI	-65/150	0	1000	17	0		
SZ183CGAN	RA-CML	AR0816007	R1	CY7C63723C-SXC	-65/150	0	500	17	0		
SZ183CGAN	RA-CML	AR0816007	R1	CY7C63723C-SXC	-65/150	0	1000	16	0		
SZ183CGAN	RA-CML	AR0816013	R1	CY7C63723C-SXC	-65/150	0	500	20	1	AR0816013-1T1	Cut wedge
SZ183CGAN	RA-CML	AR0816019	R1	CY7C63723C-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0816019	R1	CY7C63723C-SXC	-65/150	0	1000	20	0		
SZ183CGAN	RA-CML	AR0817007	R1	CY7C63723C-SXC	-65/150	0	500	17	0		
SZ183CGAN	RA-CML	AR0817007	R1	CY7C63723C-SXC	-65/150	0	1000	11	0		
SZ183CGAN	RA-CML	AR0817014	R1	CY7C63723C-SXC	-65/150	0	500	20	3	AR0817014-1T1	Cut wedge
SZ183CGAN	RA-CML	AR0817020	R1	CY7C63723C-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0817020	R1	CY7C63723C-SXC	-65/150	0	1000	17	0		
SZ183CGAN	RA-CML	AR0818007	R1	CY7C63723C-SXC	-65/150	0	500	13	1	AR0818007-1T1	Cut wedge
SZ183CGAN	RA-CML	AR0818014	R1	CY7C63723C-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0818014	R1	CY7C63723C-SXC	-65/150	0	800	19	0		
SZ183CGAN	RA-CML	AR0819007	R1	CY7C63723C-SXC	-65/150	0	500	15	0		
SZ183CGAN	RA-CML	AR0819007	R1	CY7C63723C-SXC	-65/150	0	1000	14	0		
SZ183CGAN	RA-CML	AR0819014	R1	CY7C63723C-SXC	-65/150	0	500	16	1	AR0819014-1T1	Cut wedge
SZ183CGAN	RA-CML	AR0819020	R1	CY7C63723C-SXC	-65/150	0	500	18	0		
SZ183CGAN	RA-CML	AR0819020	R1	CY7C63723C-SXC	-65/150	0	800	14	0		
SZ32457BLN	R-CML	AR0820005	R1	CY62128ELL-45SXIT	-65/150	0	426	17	0		
SZ32457BLN	R-CML	AR0820005	R1	CY62128ELL-45SXIT	-65/150	0	500	17	0		
SZ32457BLN	R-CML	AR0820005	R1	CY62128ELL-45SXIT	-65/150	0	800	17	0		
SZ32457BLN	R-CML	AR0820005	R1	CY62128ELL-45SXIT	-65/150	0	1000	17	0		
SZ183CGAN	RA-CML	AR0820007	R1	CY7C63723C-SXC	-65/150	0	426	17	0		
SZ183CGAN	RA-CML	AR0820007	R1	CY7C63723C-SXC	-65/150	0	500	17	0		

SZ183CGAN	RA-CML	AR0820007	R1	CY7C63723C-SXC	-65/150	0	800	15	0		
SZ183CGAN	RA-CML	AR0820014	R1	CY7C63723C-SXC	-65/150	0	426	16	0		
SZ183CGAN	RA-CML	AR0820014	R1	CY7C63723C-SXC	-65/150	0	500	16	0		
SZ183CGAN	RA-CML	AR0820014	R1	CY7C63723C-SXC	-65/150	0	800	16	0		
SZ183CGAN	RA-CML	AR0820014	R1	CY7C63723C-SXC	-65/150	0	1000	16	0		
SZ183CGAN	RA-CML	AR0820020	R1	CY7C63723C-SXC	-65/150	0	426	20	0		
SZ183CGAN	RA-CML	AR0820020	R1	CY7C63723C-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0820020	R1	CY7C63723C-SXC	-65/150	0	800	19	0		
SZ183CGAN	RA-CML	AR0821007	R1	CY7C63723C-SXC	-65/150	0	182	17	0		
SZ183CGAN	RA-CML	AR0821007	R1	CY7C63723C-SXC	-65/150	0	300	17	0		
SZ183CGAN	RA-CML	AR0821007	R1	CY7C63723C-SXC	-65/150	0	500	17	0		
SZ183CGAN	RA-CML	AR0821007	R1	CY7C63723C-SXC	-65/150	0	800	17	0		
SZ183CGAN	RA-CML	AR0821007	R1	CY7C63723C-SXC	-65/150	0	1000	16	0		
SZ183CGAN	RA-CML	AR0821014	R1	CY7C63723C-SXC	-65/150	0	182	20	0		
SZ183CGAN	RA-CML	AR0821014	R1	CY7C63723C-SXC	-65/150	0	300	20	0		
SZ183CGAN	RA-CML	AR0821014	R1	CY7C63723C-SXC	-65/150	0	500	20	0		
SZ183CGAN	RA-CML	AR0821014	R1	CY7C63723C-SXC	-65/150	0	800	20	0		
SZ183CGAN	RA-CML	AR0821020	R1	CY7C63723C-SXC	-65/150	0	182	20	0		
SZ183CGAN	RA-CML	AR0821020	R1	CY7C63723C-SXC	-65/150	0	300	20	0		
SZ183CGAN	RA-CML	AR0821020	R1	CY7C63723C-SXC	-65/150	0	500	20	3	AR0821020-1T3	Cut wedge
SZ183CGAN	RA-CML	AR0821020	R1	CY7C63723C-SXC	-65/150	0	800	17	0		
SZ183CGAN	RA-CML	AR0821020	R1	CY7C63723C-SXC	-65/150	0	1000	17	0		
SZ324513N	R-CML	AR0823005	R1	CY62128BNLL-70SXAT	-65/150	0	100	11	0		
SZ324513N	R-CML	AR0823005	R1	CY62128BNLL-70SXAT	-65/150	0	300	11	0		
SZ324513N	R-CML	AR0823005	R1	CY62128BNLL-70SXAT	-65/150	0	500	11	0		
SZ324513N	R-CML	AR0823005	R1	CY62128BNLL-70SXAT	-65/150	0	800	11	0		
SZ324513N	R-CML	AR0823005	R1	CY62128BNLL-70SXAT	-65/150	0	1000	11	0		
SZ183CBGAN	RA-CML	AR0823007	R1	CY7C63723C-SXC	-65/150	0	100	13	0		
SZ183CBGAN	RA-CML	AR0823007	R1	CY7C63723C-SXC	-65/150	0	300	13	0		
SZ183CBGAN	RA-CML	AR0823007	R1	CY7C63723C-SXC	-65/150	0	500	13	0		
SZ183CBGAN	RA-CML	AR0823007	R1	CY7C63723C-SXC	-65/150	0	800	13	0		
SZ183CBGAN	RA-CML	AR0823007	R1	CY7C63723C-SXC	-65/150	0	1000	13	0		
SZ2034BAGN	RA-CML	AR0824024	R1	CY7C63001C-SXC	-65/150	0	100	20	0		
SZ2034BAGN	RA-CML	AR0824024	R1	CY7C63001C-SXC	-65/150	0	300	20	0		
SZ2034BAGN	RA-CML	AR0824024	R1	CY7C63001C-SXC	-65/150	0	500	20	0		
SZ2034BAGN	RA-CML	AR0824024	R1	CY7C63001C-SXC	-65/150	0	800	20	0		
SZ2034BAGN	RA-CML	AR0824024	R1	CY7C63001C-SXC	-65/150	0	1000	12	0		
SZ2034BAGN	RA-CML	AR0824025	R1	CY7C63001C-SXC	-65/150	0	100	20	0		
SZ2034BAGN	RA-CML	AR0824025	R1	CY7C63001C-SXC	-65/150	0	300	20	0		
SZ2034BAGN	RA-CML	AR0824025	R1	CY7C63001C-SXC	-65/150	0	500	20	0		
SZ2034BAGN	RA-CML	AR0824025	R1	CY7C63001C-SXC	-65/150	0	800	20	0		
SZ2034BAGN	RA-CML	AR0824025	R1	CY7C63001C-SXC	-65/150	0	1000	13	0		
SZ2034BAGN	RA-CML	AR0824026	R1	CY7C63001C-SXC	-65/150	0	100	20	0		
SZ2034BAGN	RA-CML	AR0824026	R1	CY7C63001C-SXC	-65/150	0	300	20	0		
SZ2034BAGN	RA-CML	AR0824026	R1	CY7C63001C-SXC	-65/150	0	500	20	1	AR0824026-1T3	Cut wedge
SZ2034BAGN	RA-CML	AR0824026	R1	CY7C63001C-SXC	-65/150	0	800	19	0		
SZ2034BAGN	RA-CML	AR0824026	R1	CY7C63001C-SXC	-65/150	0	1000	10	0		
SZ183CBGAN	RA-CML	AR0827014	R1	CY7C63723C-SXC	-65/150	0	100	20	0		
SZ183CBGAN	RA-CML	AR0827014	R1	CY7C63723C-SXC	-65/150	0	300	20	0		

SZ183CBGAN	RA-CML	AR0827014	R1	CY7C63723C-SXC	-65/150	0	500	20	0
SZ24315BGN	RA-CML	AR0827020	R1	CY7C63823-SXC	-65/150	0	100	18	0
SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	-65/150	0	500	80	0
SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	-65/150	0	1000	78	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	-65/150	0	500	78	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	-65/150	0	1000	78	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	-65/150	0	500	80	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	-65/150	0	1000	80	0
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	-65/150	0	500	79	0
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	-65/150	0	1000	79	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	-65/150	0	500	80	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	-65/150	0	1000	80	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	-65/150	0	500	80	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	-65/150	0	1000	80	0
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	-65/150	0	500	80	0
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	-65/150	0	1000	80	0
SZ1615EGN	M-PHIL	MR081005	R1	CY2309SXC-1HT	-65/150	0	500	80	0
SZ1615EGN	M-PHIL	MR081005	R1	CY2309SXC-1HT	-65/150	0	1000	80	0
SZ32157BLN	R-CML	MR081006	R1	CG6707AM	-65/150	0	500	80	0
SZ32157BLN	R-CML	MR081006	R1	CG6707AM	-65/150	0	1000	80	0
SZ2032GAN	R-CML	MR081012	R1	CY2291FX	-65/150	0	500	80	0
SZ2032GAN	R-CML	MR081012	R1	CY2291FX	-65/150	0	1000	80	0
SZ815PAGN	RA-CML	MR081034	R1	CY2305SXC-1H	-65/150	0	500	80	0
SZ815PAGN	RA-CML	MR081034	R1	CY2305SXC-1H	-65/150	0	1000	80	0
SZ1615FAL	T-OSE	MR081049	R1	CY2309CSXC-1	-65/150	0	500	80	0
SZ1615FAL	T-OSE	MR081049	R1	CY2309CSXC-1	-65/150	0	1000	80	0
SZ324516LL	R-CML	MR082005	R1	CY62148ELL-55SXI	-65/150	0	500	78	0
SZ324516LL	R-CML	MR082005	R1	CY62148ELL-55SXI	-65/150	0	1000	78	0
SZ28327BGL	R-CML	MR082006	R1	CY8C27443-24SXI	-65/150	0	500	80	0
SZ28327BGL	R-CML	MR082006	R1	CY8C27443-24SXI	-65/150	0	1000	79	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	-65/150	0	500	80	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	-65/150	0	1000	80	0
SZ1615KGN	RA-CML	MR082015	R1	CY2309SXC-1HT	-65/150	0	500	80	0
SZ1615KGN	RA-CML	MR082015	R1	CY2309SXC-1HT	-65/150	0	1000	80	0
SZ1615FAL	T-OSE	MR082016	R1	CY8C201A0-SX2I	-65/150	0	500	80	0
SZ1615FAL	T-OSE	MR082016	R1	CY8C201A0-SX2I	-65/150	0	1000	80	0
SZ1815CGAN	M-PHILS	MR082023	R1	CY8C24123A-24SXI	-65/150	0	500	80	0
SZ1815CGAN	M-PHILS	MR082023	R1	CY8C24123A-24SXI	-65/150	0	1000	80	0
SZ1615EGN	M-PHILS	MR082025	R1	CY2309NZSXC-1H	-65/150	0	500	80	0
SZ1615EGN	M-PHILS	MR082025	R1	CY2309NZSXC-1H	-65/150	0	1000	80	0
SZ24312BGN	R-CML	MR082057	R1	CY7C63743C-SXC	-65/150	0	500	80	0
SZ24312BGN	R-CML	MR082057	R1	CY7C63743C-SXC	-65/150	0	1000	80	0
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	-65/150	0	100	80	0
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	-65/150	0	300	80	0
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	-65/150	0	500	80	0
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	-65/150	0	800	80	0
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	-65/150	0	1000	80	0
SZ324516BL	R-CML	MR083017	R1	CY62148ELL-55SXIT	-65/150	0	500	80	0
SZ324516BL	R-CML	MR083017	R1	CY62148ELL-55SXIT	-65/150	0	1000	80	0
SZ28327BGL	R-CML	MR083018	R1	CY8C27443-24SXIT	-65/150	0	500	80	0

SZ28327BGL	R-CML	MR083018	R1	CY8C27443-24SXIT	-65/150	0	1000	80	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	-65/150	0	500	80	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	-65/150	0	1000	78	0
SZ24315BGN	RA-CML	MR083025	R1	CY7C63823-SXC	-65/150	0	500	80	0
SZ24315BGN	RA-CML	MR083025	R1	CY7C63823-SXC	-65/150	0	1000	80	0
SZ815PABGN	RA-CML	MR083034	R1	CY2305SXC-1H	-65/150	0	500	80	0
SZ815PABGN	RA-CML	MR083034	R1	CY2305SXC-1H	-65/150	0	1000	80	0
SZ1615FAL	T-TAIWAN	MR083041	R1	CY23EP09SXC-1H	-65/150	0	500	80	0
SZ1615FAL	T-TAIWAN	MR083041	R1	CY23EP09SXC-1H	-65/150	0	1000	79	0
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXI-1T1	-65/150	0	500	80	0
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXI-1T1	-65/150	0	1000	80	0
SZ1615KGN	RA-CML	NR072009	R11	CY2292FXC	-65/150	0	500	15	0
SZ1615KGN	RA-CML	NR072009	R11	CY2292FXC	-65/150	0	1000	15	0
SZ1615KGN	RA-CML	NR072009	R12	CY2292SXC-492T	-65/150	0	500	15	0
SZ1615KGN	RA-CML	NR072009	R12	CY2292SXC-492T	-65/150	0	1000	15	0
SZ1615KGN	RA-CML	NR072009	R13	CY2292SXI-1T2T	-65/150	0	500	15	0
SZ1615KGN	RA-CML	NR072009	R13	CY2292SXI-1T2T	-65/150	0	1000	15	0
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	-65/150	0	500	80	0
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	-65/150	0	1000	80	0
SZ1615KGN	RA-CML	NR072009	R3	CY2292SXI-1T1	-65/150	0	500	79	0
SZ1615KGN	RA-CML	NR072009	R3	CY2292SXI-1T1	-65/150	0	1000	79	0
SZ1615KGN	RA-CML	NR072009	R9	CY2292SXL-1X5	-65/150	0	500	15	0
SZ1615KGN	RA-CML	NR072009	R9	CY2292SXL-1X5	-65/150	0	1000	15	0
SZ815PAGN	RA-CML	NR081002	R1	CY25560SXIT	-65/150	0	500	80	0
SZ815PAGN	RA-CML	NR081002	R1	CY25560SXIT	-65/150	0	1000	80	0
SZ815PAGN	RA-CML	NR081002	R10	CY25560SXIT	-65/150	0	500	15	0
SZ815PAGN	RA-CML	NR081002	R10	CY25560SXIT	-65/150	0	1000	15	0
SZ815PAGN	RA-CML	NR081002	R12	CY25560SXCT	-65/150	0	500	15	0
SZ815PAGN	RA-CML	NR081002	R12	CY25560SXCT	-65/150	0	1000	15	0
SZ815PAGN	RA-CML	NR081002	R13	CY25560SXC	-65/150	0	500	15	0
SZ815PAGN	RA-CML	NR081002	R13	CY25560SXC	-65/150	0	1000	15	0
SZ815PAGN	RA-CML	NR081002	R2	CY25560SXC	-65/150	0	500	80	0
SZ815PAGN	RA-CML	NR081002	R2	CY25560SXC	-65/150	0	1000	80	0
SZ15PAGN	RA-CML	NR081002	R3	CY25560SXC	-65/150	0	500	80	0
SZ15PAGN	RA-CML	NR081002	R3	CY25560SXC	-65/150	0	1000	80	0
SZ815PAGN	RA-CML	NR081002	R4	CY25560SXCT	-65/150	0	500	15	0
SZ815PAGN	RA-CML	NR081002	R4	CY25560SXCT	-65/150	0	1000	15	0
SZ815PAGN	RA-CML	NR081002	R5	CY25560SXCT	-65/150	0	500	15	0
SZ815PAGN	RA-CML	NR081002	R5	CY25560SXCT	-65/150	0	1000	15	0
SZ815PAGN	RA-CML	NR081002	R6	CY25560SXCT	-65/150	0	500	15	0
SZ815PAGN	RA-CML	NR081002	R6	CY25560SXCT	-65/150	0	1000	15	0
SZ815PAGN	RA-CML	NR081002	R7	CY25560SXCT	-65/150	0	500	15	0
SZ815PAGN	RA-CML	NR081002	R7	CY25560SXCT	-65/150	0	1000	15	0

Summary for Package Family: SOIC (Pb-Free)

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SSOP (Pb-Free)

SP2824HAN	T-OSE	072402	R1A	CY8C24633-24PVXI	-65/150	0	500	26	0
SP2824HAN	T-OSE	072402	R1A	CY8C24633-24PVXI	-65/150	0	1000	26	0
SP2824HAN	T-OSE	072402	R1B	CY8C24633-24PVXI	-65/150	0	500	26	0
SP2824HAN	T-OSE	072402	R1B	CY8C24633-24PVXI	-65/150	0	1000	26	0

SP2824HAN	T-OSE	072402	R1C	CY8C24633-24PVXI	-65/150	0	500	26	0		
SP2824HAN	T-OSE	072402	R1C	CY8C24633-24PVXI	-65/150	0	1000	26	0		
SP28215GCL	RA-CML	073103	R1A	CY7C64215	-65/150	0	1000	77	0		
SP28215GCL	RA-CML	073103	R1B	CY7C64215	-65/150	0	1000	77	0		
SP28215GCL	RA-CML	073103	R1C	CY7C64215	-65/150	0	1000	77	0		
SP28215GCL	RA-CML	073103	R1D	CY7C64215	-65/150	0	1000	77	0		
SP28215GCL	RA-CML	073103	R3A	CY7C64215	-65/150	0	1000	77	0		
SP28215GCL	RA-CML	073103	R3B	CY7C64215	-65/150	0	1000	75	0		
SP28215GCL	RA-CML	073103	R3C	CY7C64215	-65/150	0	1000	45	0		
SP28215GCL	RA-CML	073103	R3D	CY7C64215	-65/150	0	1000	75	0		
SP2821AGB	M - Manila	074908	R2	CY8C21534	-65/150	0	500	77	0		
SP2821AGB	M - Manila	074908	R2	CY8C21534	-65/150	0	1000	77	0		
SP28214GL	T-TAIWAN	081002	R3	CY8C24423A-24PVXI	-65/150	0	500	79	0		
SP28214GL	T-TAIWAN	081002	R3	CY8C24423A-24PVXI	-65/150	0	1000	79	0		
SP483EGAL	R-CML	081003	R1	CY8C29666-24PVXI	-65/150	0	100	77	0		
SP483EGAL	R-CML	081003	R1	CY8C29666-24PVXI	-65/150	0	300	77	0		
SP483EGAL	R-CML	081003	R1	CY8C29666-24PVXI	-65/150	0	500	77	0		
SP483EGAL	R-CML	081003	R1	CY8C29666-24PVXI	-65/150	0	1000	77	0		
SP483EGAL	R-CML	081003	R2	CY8C29666-24PVXI	-65/150	0	100	77	0		
SP483EGAL	R-CML	081003	R2	CY8C29666-24PVXI	-65/150	0	300	77	0		
SP483EGAL	R-CML	081003	R2	CY8C29666-24PVXI	-65/150	0	500	77	0		
SP483EGAL	R-CML	081003	R2	CY8C29666-24PVXI	-65/150	0	1000	77	0		
SP483EGAL	R-CML	081003	R3	CY8C29666-24PVXI	-65/150	0	100	77	0		
SP483EGAL	R-CML	081003	R3	CY8C29666-24PVXI	-65/150	0	300	77	0		
SP483EGAL	R-CML	081003	R3	CY8C29666-24PVXI	-65/150	0	500	77	0		
SP483EGAL	R-CML	081003	R3	CY8C29666-24PVXI	-65/150	0	1000	77	0		
SP28215GGL	RA-CML	081213	R1	CY8C24533-24PVXI	-65/150	0	500	77	0		
SP28215GGL	RA-CML	081213	R1	CY8C24533-24PVXI	-65/150	0	1000	77	0		
SP28215BGL	RA-CML	081213	R2	CY8C24533-24PVXI	-65/150	0	500	80	0		
SP28215BGL	RA-CML	081213	R2	CY8C24533-24PVXI	-65/150	0	1000	80	0		
SP28215BGL	RA-CML	081213	R3	CY8C24533-24PVXI	-65/150	0	500	80	0		
SP28215BGL	RA-CML	081213	R3	CY8C24533-24PVXI	-65/150	0	800	80	0		
SP28215BGL	RA-CML	081213	R3	CY8C24533-24PVXI	-65/150	0	1000	80	0		
SP28215GGL	CML-RA	AR0722016	R1	CY7C60323-PVXC	-65/150	0	1000	17	0		
SP563AAGN	R-CML	AR0727016	R1	CY7C68000-56PVXC	-65/150	0	1000	17	0		
SP28215GGL	RA-CML	AR0727041	R1	CY8C27443-24PVXI	-65/150	0	1000	20	0		
SP483EHAL	R-CML	AR0733002	R1	CY8C27643-24PVXI	-65/150	0	500	17	0		
SP483EHAL	R-CML	AR0733002	R1	CY8C27643-24PVXI	-65/150	0	1000	16	0		
SP563BGAL	R-CML	AR0738003	R1	CY7C68300C-56PVXC	-65/150	0	500	13	0		
SP563BGAL	R-CML	AR0738003	R1	CY7C68300C-56PVXC	-65/150	0	1000	13	0		
SP483EGAL	R-CML	AR0739011	R1	CY8C29666-24PVXIT	-65/150	0	500	17	0		
SP483EGAL	R-CML	AR0739011	R1	CY8C29666-24PVXIT	-65/150	0	1000	17	0		
SP483EBAL	R-CML	AR0740004	R1	CY8C29666-24PVXIT	-65/150	0	500	12	0		
SP483EBAL	R-CML	AR0740004	R1	CY8C29666-24PVXIT	-65/150	0	1000	11	0		
SP483EHAL	R-CML	AR0741005	R1	CY8C27643-24PVXIT	-65/150	0	500	17	0		
SP483EHAL	R-CML	AR0741005	R1	CY8C27643-24PVXIT	-65/150	0	1000	17	0		
SP483EBAL	R-CML	AR0746002	R1	CY8C29666-24PVXI	-65/150	0	500	16	0		
SP483EBAL	R-CML	AR0746002	R1	CY8C29666-24PVXI	-65/150	0	1000	15	0		
SP563BGAL	R-CML	AR0748005	R1	CY7C68300B-56PVXC	-65/150	0	500	15	2	AR0748005-1T1	Cut wedge



SP563BGAL	R-CML	AR0748005	R1	CY7C68300B-56PVXC	-65/150	0	1000	13	0		
SP563BGAL	R-CML	AR0749004	R1	CY7C68300B-56PVXC	-65/150	0	500	20	0		
SP563BGAL	R-CML	AR0749004	R1	CY7C68300B-56PVXC	-65/150	0	1000	11	0		
SP28215GGL	RA-CML	AR0805011	R1	CY7C60323-PVXC	-65/150	0	500	17	0		
SP28215GGL	RA-CML	AR0805011	R1	CY7C60323-PVXC	-65/150	0	1000	17	0		
SP563DAGN	R-CML	AR0806005	R1	CY7C66113C-PVXC	-65/150	0	500	9	0		
SP563DAGN	R-CML	AR0806005	R1	CY7C66113C-PVXC	-65/150	0	1000	8	0		
SP28215GGL	RA-CML	AR0806021	R1	CY8C21534-24PVXIT	-65/150	0	500	20	0		
SP28215GGL	RA-CML	AR0806021	R1	CY8C21534-24PVXIT	-65/150	0	1000	20	0		
SP563ABGN	R-CML	AR0809005	R1	CY7C68000-56PVXCT	-65/150	0	500	15	2	AR0809005-1T1	Cut wedge
SP563ABGN	R-CML	AR0809005	R1	CY7C68000-56PVXCT	-65/150	0	1000	13	0		
SP28215GGL	RA-CML	AR0810010	R1	CY8C21534-24PVXIT	-65/150	0	500	13	0		
SP28215GGL	RA-CML	AR0810010	R1	CY8C21534-24PVXIT	-65/150	0	1000	12	0		
SP28215GGL	RA-CML	AR0810014	R1	CY7C64215-28PVXC	-65/150	0	500	20	0		
SP28215GGL	RA-CML	AR0810014	R1	CY7C64215-28PVXC	-65/150	0	1000	20	0		
SP202AAAGN	RA-CML	AR0811006	R1	CY8C24223A-24PVXI	-65/150	0	500	17	0		
SP202AAAGN	RA-CML	AR0811006	R1	CY8C24223A-24PVXI	-65/150	0	1000	17	0		
SP563DBBGN	R-CML	AR0812005	R1	CY7C68001-56PVXC	-65/150	0	500	15	0		
SP563DBBGN	R-CML	AR0812005	R1	CY7C68001-56PVXC	-65/150	0	1000	15	0		
SP483EBAL	R-CML	AR0813005	R1	CY8C29666-24PVXIT	-65/150	0	500	17	0		
SP483EBAL	R-CML	AR0813005	R1	CY8C29666-24PVXIT	-65/150	0	1000	17	0		
SP202AAAGN	RA-CML	AR0813017	R1	CY8C27243-24PVXIT	-65/150	0	500	20	0		
SP202AAAGN	RA-CML	AR0813017	R1	CY8C27243-24PVXIT	-65/150	0	1000	20	0		
SP28215GGL	RA-CML	AR0815012	R1	CY8C27443-24PVXI	-65/150	0	500	17	0		
SP28215GGL	RA-CML	AR0815012	R1	CY8C27443-24PVXI	-65/150	0	800	17	0		
SP28215GGL	RA-CML	AR0815012	R1	CY8C27443-24PVXI	-65/150	0	1000	17	0		
SP28215GGL	RA-CML	AR0815017	R1	CY8C27443-24PVXIT	-65/150	0	500	20	0		
SP28215GGL	RA-CML	AR0815017	R1	CY8C27443-24PVXIT	-65/150	0	779	19	0		
SP28215GGL	RA-CML	AR0815017	R1	CY8C27443-24PVXIT	-65/150	0	800	19	0		
SP28215GGL	RA-CML	AR0815017	R1	CY8C27443-24PVXIT	-65/150	0	1000	19	0		
SP483EBAL	R-CML	AR0816005	R1	CY8C29666-24PVXI	-65/150	0	500	17	0		
SP483EBAL	R-CML	AR0816005	R1	CY8C29666-24PVXI	-65/150	0	1000	17	0		
SP563BBBGL	R-CML	AR0818003	R1	CY7C68013A-56PVXC	-65/150	0	500	13	0		
SP563BBBGL	R-CML	AR0818003	R1	CY7C68013A-56PVXC	-65/150	0	800	13	0		
SP563BBBGL	R-CML	AR0818003	R1	CY7C68013A-56PVXC	-65/150	0	1000	13	0		
SP28215GGL	RA-CML	AR0818012	R1	CY8C27443-24PVXIT	-65/150	0	500	13	0		
SP28215GGL	RA-CML	AR0818012	R1	CY8C27443-24PVXIT	-65/150	0	800	13	0		
SP28215GGL	RA-CML	AR0818012	R1	CY8C27443-24PVXIT	-65/150	0	1000	13	0		
SP28215GGL	RA-CML	AR0821012	R1	CY8C21534-24PVXIT	-65/150	0	500	17	0		
SP28215GGL	RA-CML	AR0821012	R1	CY8C21534-24PVXIT	-65/150	0	800	17	0		
SP28215GGL	RA-CML	AR0821012	R1	CY8C21534-24PVXIT	-65/150	0	1000	17	0		
SP28215GGL	RA-CML	AR0821019	R1	CY8C21534-24PVXIT	-65/150	0	182	20	0		
SP28215GGL	RA-CML	AR0821019	R1	CY8C21534-24PVXIT	-65/150	0	300	20	0		
SP28215GGL	RA-CML	AR0821019	R1	CY8C21534-24PVXIT	-65/150	0	500	20	0		
SP28215GGL	RA-CML	AR0821019	R1	CY8C21534-24PVXIT	-65/150	0	800	20	0		
SP28215GGL	RA-CML	AR0821019	R1	CY8C21534-24PVXIT	-65/150	0	1000	20	0		
SP483EBBAL	R-CML	AR0822003	R1	CY8C29666-24PVXI	-65/150	0	100	17	0		
SP483EBBAL	R-CML	AR0822003	R1	CY8C29666-24PVXI	-65/150	0	300	17	0		
SP483EBBAL	R-CML	AR0822003	R1	CY8C29666-24PVXI	-65/150	0	500	17	0		



SP483EBBAL	R-CML	AR0822003	R1	CY8C29666-24PVXI	-65/150	0	800	17	0
SP483EBBAL	R-CML	AR0822003	R1	CY8C29666-24PVXI	-65/150	0	1000	17	0
SP483EBBAL	R-CML	AR0823003	R1	CY8C29666-24PVXI	-65/150	0	100	11	0
SP483EBBAL	R-CML	AR0823003	R1	CY8C29666-24PVXI	-65/150	0	300	11	0
SP483EBBAL	R-CML	AR0823003	R1	CY8C29666-24PVXI	-65/150	0	500	11	0
SP483EBBAL	R-CML	AR0823003	R1	CY8C29666-24PVXI	-65/150	0	800	11	0
SP483EBBAL	R-CML	AR0823003	R1	CY8C29666-24PVXI	-65/150	0	1000	11	0
SP202AAAGN	RA-CML	AR0823019	R1	CY8C27243-24PVXIT	-65/150	0	100	20	0
SP202AAAGN	RA-CML	AR0823019	R1	CY8C27243-24PVXIT	-65/150	0	300	20	0
SP202AAAGN	RA-CML	AR0823019	R1	CY8C27243-24PVXIT	-65/150	0	500	20	0
SP202AAAGN	RA-CML	AR0823019	R1	CY8C27243-24PVXIT	-65/150	0	800	20	0
SP202AAAGN	RA-CML	AR0823019	R1	CY8C27243-24PVXIT	-65/150	0	1000	20	0
SP28215BGL	RA-CML	AR0824012	R1	CY8C21534-24PVXI	-65/150	0	100	17	0
SP28215BGL	RA-CML	AR0824012	R1	CY8C21534-24PVXI	-65/150	0	300	17	0
SP28215BGL	RA-CML	AR0824012	R1	CY8C21534-24PVXI	-65/150	0	500	17	0
SP28215BGL	RA-CML	AR0824012	R1	CY8C21534-24PVXI	-65/150	0	800	17	0
SP28215BGL	RA-CML	AR0824012	R1	CY8C21534-24PVXI	-65/150	0	1000	17	0
SP28215BGL	RA-CML	AR0824019	R1	CY8C21534-24PVXI	-65/150	0	100	20	0
SP28215BGL	RA-CML	AR0824019	R1	CY8C21534-24PVXI	-65/150	0	300	20	0
SP28215BGL	RA-CML	AR0824019	R1	CY8C21534-24PVXI	-65/150	0	500	20	0
SP28215BGL	RA-CML	AR0824019	R1	CY8C21534-24PVXI	-65/150	0	800	20	0
SP28215BGL	RA-CML	AR0824019	R1	CY8C21534-24PVXI	-65/150	0	1000	20	0
SP483EBBAL	R-CML	AR0825003	R1	CY8C29666-24PVXI	-65/150	0	100	17	0
SP483EBBAL	R-CML	AR0825003	R1	CY8C29666-24PVXI	-65/150	0	300	17	0
SP483EBBAL	R-CML	AR0825003	R1	CY8C29666-24PVXI	-65/150	0	500	17	0
SP483EBBAL	R-CML	AR0825003	R1	CY8C29666-24PVXI	-65/150	0	800	17	0
SP483EBBAL	R-CML	AR0825003	R1	CY8C29666-24PVXI	-65/150	0	1000	17	0
SP563BBBGL	R-CML	AR0826003	R1	CY7C68300C-56PVXC	-65/150	0	100	17	0
SP563BBBGL	R-CML	AR0826003	R1	CY7C68300C-56PVXC	-65/150	0	300	17	0
SP563BBBGL	R-CML	AR0826003	R1	CY7C68300C-56PVXC	-65/150	0	500	17	0
SP563BBBGL	R-CML	AR0826003	R1	CY7C68300C-56PVXC	-65/150	0	800	17	0
SP563BBBGL	R-CML	AR0826003	R1	CY7C68300C-56PVXC	-65/150	0	1000	17	0
SP202AABGN	RA-CML	AR0830012	R1	CY8C24223A-24PVXI	-65/150	0	100	16	0
SP202AABGN	RA-CML	AR0830012	R1	CY8C24223A-24PVXI	-65/150	0	300	16	0
SP202AABGN	RA-CML	AR0830012	R1	CY8C24223A-24PVXI	-65/150	0	500	16	0
SP28215BGL	RA-CML	AR0831012	R1	CY8C24423A-RASPI	-65/150	0	100	11	0
SP28215BGL	RA-CML	AR0831012	R1	CY8C24423A-RASPI	-65/150	0	300	11	0
SP28215BGL	RA-CML	AR0831012	R1	CY8C24423A-RASPI	-65/150	0	500	11	0
SP28215BGL	RA-CML	AR0831019	R1	CY8C24423A-RASPI	-65/150	0	100	11	0
SP28215BGL	RA-CML	AR0831019	R1	CY8C24423A-RASPI	-65/150	0	300	11	0
SP28215BGL	RA-CML	AR0831019	R1	CY8C24423A-RASPI	-65/150	0	500	11	0
SP28215BGL	RA-CML	AR0831021	R1	CY8C21534-24PVXI	-65/150	0	100	20	0
SP28215BGL	RA-CML	AR0831021	R1	CY8C21534-24PVXI	-65/150	0	300	20	0
SP28215BGL	RA-CML	AR0831021	R1	CY8C21534-24PVXI	-65/150	0	500	20	0
SP28215BGL	RA-CML	AR0832012	R1	CY8C27443-24PVXI	-65/150	0	100	16	0
SP28215BGL	RA-CML	AR0832012	R1	CY8C27443-24PVXI	-65/150	0	300	16	0
SP28215GGL	RA-CML	MR073021	R1	CY8C27443-24PVXI	-65/150	0	1000	80	0
SP563BAGL	R-CML	MR073055	R1	CP6603AMT	-65/150	0	1000	77	0
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	-65/150	0	500	80	0
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	-65/150	0	1000	80	0

SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	-65/150	0	500	80	0		
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	-65/150	0	1000	80	0		
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	-65/150	0	500	79	0		
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	-65/150	0	1000	79	0		
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	-65/150	0	500	79	0		
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	-65/150	0	1000	79	0		
SP563BGAL	R-CML	MR081007	R1	CY7C68300C-56PVXC	-65/150	0	500	80	0		
SP563BGAL	R-CML	MR081007	R1	CY7C68300C-56PVXC	-65/150	0	1000	80	0		
SP28214GL	T-OSE	MR081009	R1	CY8C24494-24PVXI	-65/150	0	500	79	0		
SP28214GL	T-OSE	MR081009	R1	CY8C24494-24PVXI	-65/150	0	1000	79	0		
SP28215GGL	RA-CML	MR081016	R1	CY8C21534-24PVXI	-65/150	0	500	123	0		
SP28215GGL	RA-CML	MR081016	R1	CY8C21534-24PVXI	-65/150	0	1000	123	0		
SP2822BGL	M-PHILS	MR081043	R1	CY8C21534-24PVXAT	-65/150	0	500	77	0		
SP2822BGL	M-PHILS	MR081043	R1	CY8C21534-24PVXAT	-65/150	0	1000	77	0		
SP2029AAGL	RA-CML	MR081064	R1	CY8C21334-24PVXI	-65/150	0	500	80	0		
SP2029AAGL	RA-CML	MR081064	R1	CY8C21334-24PVXI	-65/150	0	1000	80	0		
SP202AAAGN	RA-CML	MR082007	R1	CP6650AMT	-65/150	0	500	80	0		
SP202AAAGN	RA-CML	MR082007	R1	CP6650AMT	-65/150	0	1000	80	0		
SP563BBBGL	R-CML	MR082008	R1	CY7C68300C-56PVXC	-65/150	0	500	80	0		
SP563BBBGL	R-CML	MR082008	R1	CY7C68300C-56PVXC	-65/150	0	1000	80	0		
SP28214GL	T-OSE	MR082013	R1	CY8C26443-24PVX	-65/150	0	500	80	0		
SP28214GL	T-OSE	MR082013	R1	CY8C26443-24PVX	-65/150	0	1000	80	0		
SP2822BGL	M-PHILS	MR082038	R1	CY8C24423A-12PVXE	-65/150	0	500	80	0		
SP2822BGL	M-PHILS	MR082038	R1	CY8C24423A-12PVXE	-65/150	0	1000	80	0		
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	-65/150	0	500	80	1	MR082071-1T1	PO Metal Damage
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	-65/150	0	1000	79	0		
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	-65/150	0	100	80	0		
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	-65/150	0	300	80	0		
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	-65/150	0	500	80	0		
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	-65/150	0	800	80	0		
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	-65/150	0	1000	80	0		
SP563BBBG	R-CML	MR083011	R1	CY7C68013-56PVXC	-65/150	0	100	80	0		
SP563BBBG	R-CML	MR083011	R1	CY7C68013-56PVXC	-65/150	0	300	78	0		
SP563BBBG	R-CML	MR083011	R1	CY7C68013-56PVXC	-65/150	0	500	78	0		
SP563BBBG	R-CML	MR083011	R1	CY7C68013-56PVXC	-65/150	0	1000	78	0		
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	-65/150	0	100	80	0		
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	-65/150	0	300	80	0		
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	-65/150	0	500	80	0		
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	-65/150	0	800	80	0		
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	-65/150	0	1000	80	0		
SP28214GL	T-TAIWAN	MR083036	R1	CY8C9520A-24PVXI	-65/150	0	500	80	0		
SP28214GL	T-TAIWAN	MR083036	R1	CY8C9520A-24PVXI	-65/150	0	1000	80	0		
SP2822BGL	M-PHIL	NR071001	R10	CP6659AM	-65/150	0	500	14	0		
SP2822BGL	M-PHIL	NR071001	R10	CP6659AM	-65/150	0	1000	14	0		
SP2822BGL	M-PHIL	NR071001	R11	CP6659AM	-65/150	0	500	14	0		
SP2822BGL	M-PHIL	NR071001	R11	CP6659AM	-65/150	0	1000	14	0		
SP2822BGL	M-PHIL	NR071001	R12	CP6659AMT	-65/150	0	500	14	0		
SP2822BGL	M-PHIL	NR071001	R12	CP6659AMT	-65/150	0	1000	14	0		
SP2822BGL	M-PHIL	NR071001	R2A	CP6659AM	-65/150	0	500	79	0		
SP2822BGL	M-PHIL	NR071001	R2A	CP6659AM	-65/150	0	1000	79	0		

SP2822BGL	M-PHIL	NR071001	R3	CP6659AMT	-65/150	0	500	80	0
SP2822BGL	M-PHIL	NR071001	R3	CP6659AMT	-65/150	0	1000	80	0
SP2822BGL	M-PHIL	NR071001	R4	CP6659AMT	-65/150	0	1000	15	0
SP2822BGL	M-PHIL	NR071001	R5	CP6659AMT	-65/150	0	1000	15	0
SP2822BGL	M-PHIL	NR071001	R6	CP6659AMT	-65/150	0	1000	15	0
SP2822BGL	M-PHIL	NR071001	R7	CY8C24423A-12PVXE	-65/150	0	500	15	0
SP2822BGL	M-PHIL	NR071001	R7	CY8C24423A-12PVXE	-65/150	0	1000	15	0
SP2822BGL	M-PHIL	NR071001	R8	CP6659AM	-65/150	0	500	15	0
SP2822BGL	M-PHIL	NR071001	R8	CP6659AM	-65/150	0	1000	15	0
SP2822BGL	M-PHIL	NR071001	R9	CP6659AM	-65/150	0	500	13	0
SP2822BGL	M-PHIL	NR071001	R9	CP6659AM	-65/150	0	1000	13	0
SP56AAGL	T	NR072021	R1	CY7C68000-56PVXC	-65/150	0	500	80	0
SP56AAGL	T	NR072021	R1	CY7C68000-56PVXC	-65/150	0	1000	80	0
SP563BBGL	T	NR072021	R2	CY7C68014A-56PVXC	-65/150	0	500	80	0
SP563BBGL	T	NR072021	R2	CY7C68014A-56PVXC	-65/150	0	1000	80	0
SP563AAGL	T	NR072021	R3	CY7C68000-56PVXC	-65/150	0	500	80	0
SP563AAGL	T	NR072021	R3	CY7C68000-56PVXC	-65/150	0	1000	80	0
SP2822BGL	M-PHILIPPINES	NR072025	R1	CY8C21534-24PVXAT	-65/150	0	500	79	0
SP2822BGL	M-PHILIPPINES	NR072025	R1	CY8C21534-24PVXAT	-65/150	0	1000	79	0
SP2822BGL	M-PHIL	NR072025	R10	CP6659AM	-65/150	0	500	14	0
SP2822BGL	M-PHIL	NR072025	R10	CP6659AM	-65/150	0	1000	14	0
SP2822BGL	M-PHIL	NR072025	R11	CY8C21534-24PVXA	-65/150	0	500	15	0
SP2822BGL	M-PHIL	NR072025	R11	CY8C21534-24PVXA	-65/150	0	1000	15	0
SP2822BGL	M-PHIL	NR072025	R12	CY8C21534-24PVXA	-65/150	0	500	14	0
SP2822BGL	M-PHIL	NR072025	R12	CY8C21534-24PVXA	-65/150	0	1000	14	0
SP2822BGL	M-PHIL	NR072025	R13	CY8C21534-24PVXE	-65/150	0	500	14	0
SP2822BGL	M-PHIL	NR072025	R13	CY8C21534-24PVXE	-65/150	0	1000	14	0
SP2822BGL	M-PHILIPPINES	NR072025	R2	CY8C21534-24PVXAT	-65/150	0	500	79	0
SP2822BGL	M-PHILIPPINES	NR072025	R2	CY8C21534-24PVXAT	-65/150	0	1000	79	0
SP48AAAAGR	M-PHIL	NR074001	R4	CY14B101L-SP45XC	-65/150	0	1000	15	0
SP48AAAAGR	M-PHILIPPINES	NR074001	R5	CY14B101L-SP45XI	-65/150	0	500	14	0
SP48AAAAGR	M-PHILIPPINES	NR074001	R5	CY14B101L-SP45XI	-65/150	0	1000	14	0
SP48AAAAGR	M-PHILIPPINES	NR074001	R6	CY14B101L-SP45XI	-65/150	0	500	14	0
SP48AAAAGR	M-PHILIPPINES	NR074001	R6	CY14B101L-SP45XI	-65/150	0	1000	14	0
SP2029AAGL	RA-CML	NR081003	R1	CP6458MT	-65/150	0	500	77	0
SP2029AAGL	RA-CML	NR081003	R1	CP6458MT	-65/150	0	1000	77	0
SP2029AAGL	RA-CML	NR081003	R2	CP6458BMT	-65/150	0	500	79	0
SP2029AAGL	RA-CML	NR081003	R2	CP6458BMT	-65/150	0	1000	79	0
SP2029AAGL	RA-CML	NR081003	R3	CP6458BMT	-65/150	0	500	78	0
SP2029AAGL	RA-CML	NR081003	R3	CP6458BMT	-65/150	0	1000	78	0
SP2029AAGL	RA-CML	NR081003	R4	NA	-65/150	0	100	15	0
SP2029AAGL	RA-CML	NR081003	R4	NA	-65/150	0	500	15	0
SP2029AAGL	RA-CML	NR081003	R5	NA	-65/150	0	500	9	0
SP2029AAGL	RA-CML	NR081003	R5	NA	-65/150	0	1000	9	0
SP2029AAGL	RA-CML	NR081003	R6	NA	-65/150	0	500	15	0
SP2029AAGN	RA-CML	NR081003	R7	NA	-65/150	0	500	15	0
SP2029AAGN	RA-CML	NR081003	R7	NA	-65/150	0	1000	15	0

Summary for Package Family: SSOP (Pb-Free)

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TQFP

A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	-65/150	0	500	78	0
A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	-65/150	0	1000	78	0
A32BXGBGB	Q-KOREA	MR081038	R1	CY7C4221V-15AC	-65/150	0	500	80	0
A32BXGBGB	Q-KOREA	MR081038	R1	CY7C4221V-15AC	-65/150	0	1000	79	0
A32LXGXGB	Q-KOREA	MR082024	R1	CY29948AC	-65/150	0	500	79	0
A32LXGXGB	Q-KOREA	MR082024	R1	CY29948AC	-65/150	0	1000	79	0
A32LXGXGB	Q-KOREA	MR083012	R1	CY29948AI	-65/150	0	100	79	0
A32LXGXGB	Q-KOREA	MR083012	R1	CY29948AI	-65/150	0	300	79	0
A32LXGXGB	Q-KOREA	MR083012	R1	CY29948AI	-65/150	0	500	79	0
A32LXGXGB	Q-KOREA	MR083012	R1	CY29948AI	-65/150	0	800	79	0
A32LXGXGB	Q-KOREA	MR083012	R1	CY29948AI	-65/150	0	1000	79	0

**Summary for Package Family: TQFP** **11 records**

**Sum** **868** **0**

**TQFP (10mm X 10mm)**

AS64CGAGB	Q-KOREA	MR081026	R1	CY7C4285-15ASI	-65/150	0	500	75	0
AS64CGAGB	Q-KOREA	MR081026	R1	CY7C4285-15ASI	-65/150	0	1000	73	0

**Summary for Package Family: TQFP (10mm X 10mm)** **2 records**

**Sum** **148** **0**

**TQFP (Pb-Free)**

AZ100RAALL	R-CML	074204	R1	CY7C1370D-167AXC	-65/150	0	500	76	0		
AZ100RAALL	R-CML	074204	R1	CY7C1370D-167AXC	-65/150	0	1000	76	0		
AZ128SALL	R-CML	074404	R1	7C681000BC-RAZC	-65/150	0	500	77	9	074404-1T1	Cut Wedge
AZ128SALL	R-CML	074404	R1	7C681000BC-RAZC	-65/150	0	1000	63	0		
AZ128SALL	R-CML	074404	R1A	7C681000BC-RAZC	-65/150	0	500	77	38	074404-1AT1	Cut Wedge
AZ128SALL	R-CML	074404	R1A	7C681000BC-RAZC	-65/150	0	1000	35	0		
AZ64HXGAL	R-CML	074603	R1	CY7C144-55AXC	-65/150	0	3	77	0		
AZ64HXGAL	R-CML	074603	R1	CY7C144-55AXC	-65/150	0	500	77	0		
AZ64HXGAL	R-CML	074603	R1	CY7C144-55AXC	-65/150	0	1000	77	0		
AZ64HXGAL	R-CML	074603	R2	CY7C144-55AXC	-65/150	0	500	77	0		
AZ64HXGAL	R-CML	074603	R2	CY7C144-55AXC	-65/150	0	1000	77	0		
AZ64HXGAL	R-CML	074603	R3	CY7C144-55AXC	-65/150	0	500	77	0		
AZ64HXGAL	R-CML	074603	R3	CY7C144-55AXC	-65/150	0	1000	77	0		
AZ64HXGAL	R-CML	074603	R4	CY7C144-55AXC	-65/150	0	500	77	0		
AZ64HXGAL	R-CML	074603	R4	CY7C144-55AXC	-65/150	0	1000	75	0		
AZ100RXBLL	R-CML	080310	R1	CY7C1360C-166AXC	-65/150	0	500	79	0		
AZ100RXBLL	R-CML	080310	R1	CY7C1360C-166AXC	-65/150	0	1000	78	0		
AZ100RXBLL	R-CML	080310	R1A	CY7C1360C-166AXC	-65/150	0	500	80	0		
AZ100RXBLL	R-CML	080310	R1A	CY7C1360C-166AXC	-65/150	0	1000	80	0		
AZ120DAGAR	L-Korea	080610	R1	CY7C0831AV-133AXI	-65/150	0	500	76	0		
AZ120DAGAR	L-Korea	080610	R1	CY7C0831AV-133AXI	-65/150	0	1000	76	0		
AZ120DAGAR	L-Korea	080610	R2	CY7C0831AV-133AXI	-65/150	0	500	77	0		
AZ120DAGAR	L-Korea	080610	R2	CY7C0831AV-133AXI	-65/150	0	1000	77	0		
AZ44SGGAN	RA-CML	080905	R2	CY8C27543-24AXI	-65/150	0	500	80	0		
AZ44SGGAN	RA-CML	080905	R2	CY8C27543-24AXI	-65/150	0	1000	80	0		
AZ44SGGAN	RA-CML	080905	R3	CY8C27543-24AXI	-65/150	0	500	80	0		
AZ44SGGAN	RA-CML	080905	R3	CY8C27543-24AXI	-65/150	0	1000	80	0		
AZ100RXBLL	R-CML	AR0818001	R1	CY7C1354CV25-166AXC	-65/150	0	100	10	0		
AZ100RXBLL	R-CML	AR0818001	R1	CY7C1354CV25-166AXC	-65/150	0	300	10	0		
AZ100RXBLL	R-CML	AR0818001	R1	CY7C1354CV25-166AXC	-65/150	0	500	10	0		

AZ100RXBLL	R-CML	AR0818001	R1	CY7C1354CV25-166AXC	-65/150	0	800	10	0
AZ100RXBLL	R-CML	AR0818001	R1	CY7C1354CV25-166AXC	-65/150	0	1000	10	0
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	-65/150	0	500	80	0
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	-65/150	0	1000	80	0
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	-65/150	0	500	80	0
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	-65/150	0	1000	80	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	-65/150	0	500	80	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	-65/150	0	1000	78	0
AZ32BXGAN	Q-KOREA	MR081015	R1	CY7C4201V-15AXC	-65/150	0	500	80	0
AZ32BXGAN	Q-KOREA	MR081015	R1	CY7C4201V-15AXC	-65/150	0	1000	80	0
AZ100SFAL	R-CML	MR081017	R1	CY7C024-25AXC	-65/150	0	500	80	0
AZ100SFAL	R-CML	MR081017	R1	CY7C024-25AXC	-65/150	0	1000	80	0
AZ100RXBLL	R-CML	MR081045	R1	CY7C1360C-166AXC	-65/150	0	500	80	0
AZ100RXBLL	R-CML	MR081045	R1	CY7C1360C-166AXC	-65/150	0	1000	77	0
AZ32GXGAN	G-ASE	MR081051	R1	CY29942AXI	-65/150	0	500	80	0
AZ32GXGAN	G-ASE	MR081051	R1	CY29942AXI	-65/150	0	1000	80	0
AZ144AAAGR	Q-KOREA	MR081054	R1	CY7C056V-15AXC	-65/150	0	500	77	0
AZ144AAAGR	Q-KOREA	MR081054	R1	CY7C056V-15AXC	-65/150	0	1000	77	0
AZ128SABLL	R-CML	MR082004	R1	CY7C68013A-128AXC	-65/150	0	500	80	0
AZ128SABLL	R-CML	MR082004	R1	CY7C68013A-128AXC	-65/150	0	1000	80	0
AZ32GXGAN	G-ASE	MR082020	R1	CY29942AXI	-65/150	0	500	79	0
AZ32GXGAN	G-ASE	MR082020	R1	CY29942AXI	-65/150	0	1000	79	0
AZ44SGGAN	R-CML	MR082040	R1	CS6567AM	-65/150	0	500	80	0
AZ44SGGAN	R-CML	MR082040	R1	CS6567AM	-65/150	0	1000	80	0
AZ100SFA	R-CML	MR082049	R1	CY7C024-25AXC	-65/150	0	500	80	0
AZ100SFA	R-CML	MR082049	R1	CY7C024-25AXC	-65/150	0	1000	80	0
AZ32BXGAN	Q-KOREA	MR082054	R1	CY7C4251V-15AXC	-65/150	0	500	80	0
AZ32BXGAN	Q-KOREA	MR082054	R1	CY7C4251V-15AXC	-65/150	0	1000	80	0
AZ44SGGAN	R-CML	MR082060	R1	CS6567AM	-65/150	0	500	80	0
AZ44SGGAN	R-CML	MR082060	R1	CS6567AM	-65/150	0	1000	80	0
AZ44SGGAN	R-CML	MR083014	R1	CS6567AM	-65/150	0	500	80	0
AZ44SGGAN	R-CML	MR083014	R1	CS6567AM	-65/150	0	1000	80	0
AZ32BXGAN	Q-KOREA	MR083031	R1	CY7C4251V-25AXC	-65/150	0	500	80	0
AZ32BXGAN	Q-KOREA	MR083031	R1	CY7C4251V-25AXC	-65/150	0	1000	80	0
AZ100SEAL	RA-CML	MR083032	R1	CY7B994V-5AXI	-65/150	0	500	80	0
AZ100SEAL	RA-CML	MR083032	R1	CY7B994V-5AXI	-65/150	0	1000	80	0
AZ120DGAGR	L-KOREA	NR083001	R1	CY0823CC	-65/150	0	500	77	0
AZ120DGAGR	L-KOREA	NR083001	R1	CY0823CC	-65/150	0	1000	77	0

**Summary for Package Family: TQFP (Pb-Free)**

**68 records**

**Sum** **4949** **47**

**TQFP (Thermal)**

AT120ABAGE	Q-KOREA	NR072029	R1	CYS25G0101DX-ATXC	-65/150	0	500	80	0
AT120ABAGE	Q-KOREA	NR072029	R1	CYS25G0101DX-ATXC	-65/150	0	1000	80	0
AT120ABAGE	Q-KOREA	NR072029	R2	CYS25G0101DX-ATXC	-65/150	0	500	79	0
AT120ABAGE	Q-KOREA	NR072029	R2	CYS25G0101DX-ATXC	-65/150	0	1000	79	0
AT120ABAGE	Q-KOREA	NR072029	R3	CYS25G0101DX-ATXC	-65/150	0	500	80	0
AT120ABAGE	Q-KOREA	NR072029	R3	CYS25G0101DX-ATXC	-65/150	0	1000	80	0

**Summary for Package Family: TQFP (Thermal)**

**6 records**

**Sum** **478** **0**

**TQFP (Exposed Pad, Pb-free)**

AE144AAGL	Q-KOREA	71604	R1	CY22H402SW-AXC	-65/150	0	1000	74	0
AE144AAGL	Q-Korea	71604	R2	CY22H402SW-AXC	-65/150	0	500	84	0
AE144AAGL	Q-Korea	71604	R2	CY22H402SW-AXC	-65/150	0	1000	84	0
AE144AAGL	Q-Korea	71604	R3	CY22H402SW-AXC	-65/150	0	500	81	0
AE144AAGL	Q-Korea	71604	R3	CY22H402SW-AXC	-65/150	0	1000	81	0
AE144AAGL	Q-Amkor Korea	71604	R3(1)	CY22H402SW-AXC	-65/150	0	376	1	0
AE144AAGL	Q-Amkor Korea	71604	R3(1)	CY22H402SW-AXC	-65/150	0	500	1	0

**Summary for Package Family: TQFP (Exposed Pad, Pb-Free)**

**7 records**

**406 0**

**Sum**

**TSOP (Pb-free)**

ZT32RADALL	RA-CML	074902	R1	CY62126EV30LL	-65/150	0	500	80	0
ZT32RADALL	RA-CML	074902	R1	CY62126EV30LL	-65/150	0	1000	80	0
ZT32RADALL	RA-CML	074902	R2	CY62126EV30LL	-65/150	0	500	80	0
ZT32RADALL	RA-CML	074902	R2	CY62126EV30LL	-65/150	0	1000	79	0
ZT32RADALL	RA-CML	074902	R3	CY62126EV30LL	-65/150	0	500	74	0
ZT32RADALL	RA-CML	074902	R3	CY62126EV30LL	-65/150	0	1000	74	0
ZT28R4AGL	R-CML	080302	R3	CY7C1399BNL-12ZXC	-65/150	0	500	80	0
ZT28R4AGL	R-CML	080302	R3	CY7C1399BNL-12ZXC	-65/150	0	1000	77	0
ZT48ACALL	G-TAIWAN	MR063016	R1	CY62167DV30LL-45ZXI	-65/150	0	500	45	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	-65/150	0	500	78	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	-65/150	0	1000	78	0
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	-65/150	0	500	79	0
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	-65/150	0	1000	79	0
ZT28R4AGL	R-CML	MR081058	R1	CY7C1399BNL-12ZXC	-65/150	0	500	80	0
ZT28R4AGL	R-CML	MR081058	R1	CY7C1399BNL-12ZXC	-65/150	0	1000	79	0
ZT32RABALL	T-TAIWAN	MR081060	R1	CY62128EV30LL-45ZXI	-65/150	0	500	80	0
ZT32RABALL	T-TAIWAN	MR081060	R1	CY62128EV30LL-45ZXI	-65/150	0	1000	80	0
ZT32RABALL	T-OSE	MR082019	R1	CY62128EV30LL-45ZXI	-65/150	0	500	80	0
ZT32RABALL	T-OSE	MR082019	R1	CY62128EV30LL-45ZXI	-65/150	0	1000	80	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	-65/150	0	500	78	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	-65/150	0	500	80	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	-65/150	0	1000	80	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	-65/150	0	1000	77	0
ZT32RABALL	T-OSE	MR083051	R1	CY62128BLL-70ZXC	-65/150	0	500	80	0
ZT32RABALL	T-OSE	MR083051	R1	CY62128BLL-70ZXC	-65/150	0	1000	80	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	-65/150	0	500	45	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	-65/150	0	1000	41	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	-65/150	0	500	45	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	-65/150	0	1000	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	-65/150	0	500	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	-65/150	0	1000	43	0
ZT32RADALL	RA-CML	NR073006	R4	CY62128ELL-45ZXIT	-65/150	0	500	14	0
ZT32RADALL	RA-CML	NR073006	R4	CY62128ELL-45ZXIT	-65/150	0	1000	14	0
ZT32RADALL	RA-CML	NR073006	R5	CY62128ELL-45ZXIT	-65/150	0	500	15	0
ZT32RADALL	RA-CML	NR073006	R5	CY62128ELL-45ZXIT	-65/150	0	1000	15	0
ZT32RADALL	RA-CML	NR073006	R9	CY62128ELL-45ZXIT	-65/150	0	500	14	0
ZT32RADALL	RA-CML	NR073006	R9	CY62128ELL-45ZXIT	-65/150	0	1000	14	0

**Summary for Package Family: TSOP (Pb-free)**

**37 records**

**2287 0**

**Sum**



**EXPOSED TSOP (Pb-free)**

ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXEC	-65/150	0	500	75	0
ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXEC	-65/150	0	1000	75	0

**Summary for Package Family: EXPOSED TSOP (Pb-free)**

**2 records**

**Sum** **150** **0**

**TSOP I (Pb-Free)**

ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	-65/150	0	500	80	0
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	-65/150	0	1000	80	0
ZB32RHALN	R-CML	MR081029	R1	CY62128EV30LL-45AZXI	-65/150	0	500	80	0
ZB32RHALN	R-CML	MR081029	R1	CY62128EV30LL-45AZXI	-65/150	0	1000	80	0
ZB32RHALN	R-CML	MR082003	R1	CY62128EV30LL-45ZAXI	-65/150	0	500	80	0
ZB32RHALN	R-CML	MR082003	R1	CY62128EV30LL-45ZAXI	-65/150	0	1000	80	0
ZB32RHALL	R-CML	MR082053	R1	CY62128DV30LL-55ZAXI	-65/150	0	500	80	0
ZB32RHALL	R-CML	MR082053	R1	CY62128DV30LL-55ZAXI	-65/150	0	1000	80	0
ZB32RHBALN	R-CML	MR083042	R1	CY62128ELL-45ZAXI	-65/150	0	500	80	0
ZB32RHBALN	R-CML	MR083042	R1	CY62128ELL-45ZAXI	-65/150	0	1000	80	0

**Summary for Package Family: TSOP I (Pb-Free)**

**10 records**

**Sum** **800** **0**

**TSOP II**

ZS544AALE	G-TAIWAN	MR064044	R1	CY7C1069AV33-10ZC	-65/150	0	500	45	0
ZS444ABAL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	-55/125	0	500	80	0
ZS444ABAL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	-55/125	0	1000	80	0

**Summary for Package Family: TSOP II**

**3 records**

**Sum** **205** **0**

**TSOP II (Pb-Free)**

ZW444VALL	R-CML	074203	R1	CY7C1041D-10ZSXI	-65/150	0	500	77	0
ZW444VALL	R-CML	074203	R1	CY7C1041D-10ZSXI	-65/150	0	1000	77	0
ZW444VALL	R-CML	074203	R2	CY7C1041D-10ZSXI	-65/150	0	500	77	0
ZW444VALL	R-CML	074203	R2	CY7C1041D-10ZSXI	-65/150	0	1000	77	0
ZW444VALL	R-CML	074203	R3	CY7C1041D-10ZSXI	-65/150	0	500	76	0
ZW444VALL	R-CML	074203	R3	CY7C1041D-10ZSXI	-65/150	0	1000	76	0
ZW444VBLL	R-CML	074203	R5	CY7C1041D-10ZSXI	-65/150	0	500	77	0
ZW444VBLL	R-CML	074203	R5	CY7C1041D-10ZSXI	-65/150	0	1000	77	0
ZW444VBLL	R-CML	074203	R5A	CY7C1041D-10ZSXI	-65/150	0	500	77	0
ZW444VBLL	R-CML	074203	R5A	CY7C1041D-10ZSXI	-65/150	0	1000	77	0
ZW444VBLL	R-CML	074203	R6	CY7C1021BNV33L-15ZXI	-65/150	0	500	77	0
ZW444VBLL	R-CML	074203	R6	CY7C1021BNV33L-15ZXI	-65/150	0	1000	77	0
ZW444VBLL	R-CML	074203	R6A	CY7C1021BNV33L-15ZXI	-65/150	0	500	76	0
ZW444VBLL	R-CML	074203	R6A	CY7C1021BNV33L-15ZXI	-65/150	0	1000	74	0
ZW444VBLL	R-CML	074203	R7	CY7C1021BNV33L-15ZXI	-65/150	0	500	76	0
ZW444VBLL	R-CML	074203	R7	CY7C1021BNV33L-15ZXI	-65/150	0	1000	76	0
ZW444VBLL	R-CML	074203	R7A	CY7C1021BNV33L-15ZXI	-65/150	0	500	77	0
ZW444VBLL	R-CML	074203	R7A	CY7C1021BNV33L-15ZXI	-65/150	0	1000	76	0
ZW444AJLN	R-CML	AR0732001	R1	CY7C1021CV33-10ZXCT	-65/150	0	1000	17	0
ZW444AJGN	R-CML	AR0807002	R1	CY7C1021CV33-12ZXC	-65/150	0	500	17	0
ZW444AJGN	R-CML	AR0807002	R1	CY7C1021CV33-12ZXC	-65/150	0	1000	17	0
ZW444AMLN	R-CML	MR072036	R1A	CY62147DV30L-55ZSXE	-65/150	0	2500	54	0
ZW444AMLN	R-CML	MR072036	R1A	CY62147DV30L-55ZSXE	-65/150	0	3000	54	0
ZW444AMLN	R-CML	MR072036	R1A	CY62147DV30L-55ZSXE	-65/150	0	3500	54	0

ZW444AMLN	R-CML	MR072036	R1A	CY62147DV30L-55ZSXE	-65/150	0	4000	54	0
ZW444AMLN	R-CML	MR072036	R1A	CY62147DV30L-55ZSXE	-65/150	0	4500	54	0
ZW444AMLN	R-CML	MR072036	R2A	CY62147E-RZWEB	-65/150	0	2500	50	0
ZW444AMLN	R-CML	MR072036	R2A	CY62147E-RZWEB	-65/150	0	3000	50	0
ZW444AMLN	R-CML	MR072036	R2A	CY62147E-RZWEB	-65/150	0	3500	50	0
ZW444AMLN	R-CML	MR072036	R2A	CY62147E-RZWEB	-65/150	0	4000	50	0
ZW444AMLN	R-CML	MR072036	R2A	CY62147E-RZWEB	-65/150	0	4500	47	0
ZW544AALL	G-TAIWAN	MR073058	R1	CY7C1069AV33-12ZXC	-65/150	0	1000	74	0
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	-65/150	0	500	80	0
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	-65/150	0	1000	80	0
ZW324GALL	T-OSE	MR074042	R1	CY7C1019D-10ZSXI	-65/150	0	500	80	0
ZW324GALL	T-OSE	MR074042	R1	CY7C1019D-10ZSXI	-65/150	0	1000	79	0
ZW544AALL	G-ASEK	MR081002	R1	CY7C1061AV33-12ZXC	-65/150	0	500	80	0
ZW544AALL	G-ASEK	MR081002	R1	CY7C1061AV33-12ZXC	-65/150	0	1000	80	0
ZW444AMBLN	R-CML	MR081003	R1	CY62157EV30LL-45ZSXI	-65/150	0	500	80	0
ZW444AMBLN	R-CML	MR081003	R1	CY62157EV30LL-45ZSXI	-65/150	0	1000	80	0
ZW324CBLL	OSE-T	MR081025	R1	CY62148ELL-45ZSXI	-65/150	0	500	80	0
ZW324CBLL	OSE-T	MR081025	R1	CY62148ELL-45ZSXI	-65/150	0	1000	80	0
ZW444AMBLN	R-CML	MR082002	R1	CY62146EV30LL-45SZSX	-65/150	0	500	80	0
ZW444AMBLN	R-CML	MR082002	R1	CY62146EV30LL-45SZSX	-65/150	0	1000	80	0
ZW324CBLL	T-OSE	MR082026	R1	CY62148ELL-45ZSXI	-65/150	0	500	80	0
ZW324CBLL	T-OSE	MR082026	R1	CY62148ELL-45ZSXI	-65/150	0	1000	80	0
ZW544AALL	G-TAIWAN	MR082034	R1	CY7C1069AV33-10ZXC	-65/150	0	500	80	0
ZW544AALL	G-TAIWAN	MR082034	R1	CY7C1069AV33-10ZXC	-65/150	0	1000	79	0
ZW544AALL	G-TAIWAN	MR083002	R1	CY7C1069AV33-10ZX	-65/150	0	500	80	0
ZW544AALL	G-TAIWAN	MR083002	R1	CY7C1069AV33-10ZX	-65/150	0	1000	80	0
ZW444AHBLL	R-CML	MR083020	R1	CY7C1021DV33-10ZSXI	-65/150	0	500	80	0
ZW444AHBLL	R-CML	MR083020	R1	CY7C1021DV33-10ZSXI	-65/150	0	1000	80	0
ZW324CBLL	T-OSE	MR083043	R1	CY62148EV30LL-45ZSXI	-65/150	0	500	80	0
ZW324CBLL	T-OSE	MR083043	R1	CY62148EV30LL-45ZSXI	-65/150	0	1000	80	0

Summary for Package Family: TSOP II (Pb-Free) 54 records

Sum 3777 0

TSSOP

Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	-65/150	0	500	80	0
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	-65/150	0	1000	80	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	-65/150	0	500	80	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	-65/150	0	1000	80	0
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	-65/150	0	500	80	0
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	-65/150	0	1000	80	0
Z1620GAGN	RA-CML	MR081036	R1	CY2309ZC-1H	-65/150	0	500	76	0
Z1620GAGN	RA-CML	MR081036	R1	CY2309ZC-1H	-65/150	0	1000	74	0
Z1620GAGN	RA-CML	MR082029	R1	CY2309ZC-1H	-65/150	0	500	80	0
Z1620GAGN	RA-CML	MR082029	R1	CY2309ZC-1H	-65/150	0	1000	80	0
Z1611XAGB	M-PHILS	MR082033	R1	CY2308ZC-1H	-65/150	0	500	80	0
Z1611XAGB	M-PHILS	MR082033	R1	CY2308ZC-1H	-65/150	0	1000	80	0
Z1620GAGN	RA-CML	MR083033	R1	CY2309ZC-1H	-65/150	0	500	79	0
Z1620GAGN	RA-CML	MR083033	R1	CY2309ZC-1H	-65/150	0	1000	79	0

Summary for Package Family: TSSOP 14 records

Sum 1108 0



**TSSOP (Pb-Free)**

ZZ0813AAAL	OSE-Taiwan	064606	R1	CY2XP31ZXC	-65/150	0	300	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R1	CY2XP31ZXC	-65/150	0	500	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R1	CY2XP31ZXC	-65/150	0	1000	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R2	CY2XP31ZXC	-65/150	0	300	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R2	CY2XP31ZXC	-65/150	0	500	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R2	CY2XP31ZXC	-65/150	0	1000	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R3	CY2XP31ZXC	-65/150	0	300	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R3	CY2XP31ZXC	-65/150	0	500	50	0
ZZ0813AAAL	OSE-Taiwan	064606	R3	CY2XP31ZXC	-65/150	0	1000	50	0
ZZ1620GAN	RA-CML	071801	R1	CY22050FZXI	-65/150	0	500	80	0
ZZ1620GAN	RA-CML	071801	R1	CY22050FZXI	-65/150	0	1000	80	0
ZZ1620GAN	RA-CML	071801	R2	CY22050FZXI	-65/150	0	500	80	0
ZZ1620GAN	RA-CML	071801	R2	CY22050FZXI	-65/150	0	1000	80	0
ZZ1620GAN	CML-RA	082004	R1	CY23EP09ZXC-1HT	-65/150	0	500	73	0
ZZ1620GAN	CML-RA	082004	R1	CY23EP09ZXC-1HT	-65/150	0	1000	72	0
ZZ1620GAN	CML-RA	082004	R2	CY23EP09ZXC	-65/150	0	500	76	0
ZZ1620GAN	CML-RA	082004	R2	CY23EP09ZXC	-65/150	0	1000	76	0
ZZ1620GAN	CML-RA	082004	R3	CY23EP09ZXC-1HT	-65/150	0	500	77	0
ZZ1620GAN	CML-RA	082004	R3	CY23EP09ZXC-1HT	-65/150	0	1000	77	0
ZZ1620GAN	RA-CML	AR0746014	R1	CY23EP09ZXC-1H	-65/150	0	500	17	0
ZZ1620GAN	RA-CML	AR0746014	R1	CY23EP09ZXC-1H	-65/150	0	1000	17	0
ZZ1620GAN	RA-CML	AR0747011	R1	CY22150ZXI-311	-65/150	0	500	15	0
ZZ1620GAN	RA-CML	AR0747011	R1	CY22150ZXI-311	-65/150	0	1000	15	0
ZZ1620GAN	RA-CML	AR0749019	R1	CY22394FXC	-65/150	0	500	20	0
ZZ1620GAN	RA-CML	AR0749019	R1	CY22394FXC	-65/150	0	1000	20	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXC-1H	-65/150	0	3500	78	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXC-1H	-65/150	0	4000	78	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXC-1H	-65/150	0	4500	78	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXC-1H	-65/150	0	5000	78	0
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	-65/150	0	500	79	0
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	-65/150	0	1000	78	0
ZZ1614HAN	OSE-T	MR081011	R1	CY22395FXC	-65/150	0	500	79	0
ZZ1614HAN	OSE-T	MR081011	R1	CY22395FXC	-65/150	0	1000	79	0
ZZ1620GAN	RA-CML	MR081046	R1	CY22392ZXI-384	-65/150	0	500	76	0
ZZ1620GAN	RA-CML	MR081046	R1	CY22392ZXI-384	-65/150	0	1000	75	0
ZZ1613HAN	T-OSE	MR082011	R1	CY2308ZXC-1HT	-65/150	0	500	80	0
ZZ1613HAN	T-OSE	MR082011	R1	CY2308ZXC-1HT	-65/150	0	1000	80	0
ZZ1620GAN	RA-CML	MR082032	R1	CY2308ZXC-1H	-65/150	0	500	80	0
ZZ1620GAN	RA-CML	MR082032	R1	CY2308ZXC-1H	-65/150	0	1000	80	0
ZZ1620GBAN	RA-CML	MR083015	R1	CY22150FZXI	-65/150	0	500	80	0
ZZ1620GBAN	RA-CML	MR083015	R1	CY22150FZXI	-65/150	0	1000	80	0
ZZ0812BGL	T-TAIWAN	MR083044	R1	CY24904ZXC	-65/150	0	200	80	0
ZZ2817AGL	RA-CML	NR072006	R2	CY28547ZXC	-65/150	0	1000	76	0

Summary for Package Family: TSSOP (Pb-Free)

43 records

Sum 2739 0

**VFBGA (0.75-0.8, 0.3mm)**

BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	-65/150	0	500	78	0
BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	-65/150	0	1000	78	0
BV48AAALE	G-TAIWAN	MR083013	R1	CY62157DV30LL-55BVI	-65/150	0	500	80	0

BV48AAALE	G-TAIWAN	MR083013	R1	CY62157DV30LL-55BVI	-65/150	0	1000	78	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)</b>			<b>4</b>	<b>records</b>				<b>314</b>	<b>0</b>
<b>Sum</b>									
<b>VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>									
BZ56FAALE	ASE-T	065201	R3	CY7V680510-56BGA	-65/150	0	1000	50	0
BZ100GAAGL	AT-Indonesia	071005	R1	CYWB0224ABS-BVXIES	-65/150	0	500	77	0
BZ100GAAGL	AT-Indonesia	071005	R1	CYWB0224ABS-BVXIES	-65/150	0	1000	77	0
BZ100CGAL	RA-CML	072404	R1	CYWB0124AB-BVXI	-65/150	0	300	50	0
BZ100CGAL	RA-CML	072404	R1A	CYWB0124AB-BVXI	-65/150	0	300	50	0
BZ100CGAL	RA-CML	072404	R1A	CYWB0124AB-BVXI	-65/150	0	500	50	0
BZ100CGAL	RA-CML	072404	R1A	CYWB0124AB-BVXI	-65/150	0	1000	48	0
BZ100CGAL	RA-CML	072404	R2A	CYWB0124AB-BVXI	-65/150	0	300	32	0
BZ100CGAL	RA-CML	072404	R2A	CYWB0124AB-BVXI	-65/150	0	500	32	0
BZ100CGAL	RA-CML	072404	R2A	CYWB0124AB-BVXI	-65/150	0	1000	31	0
BZ100CGAL	RA-CML	072404	R2B	CYWB0124AB-BVXI	-65/150	0	300	32	0
BZ100CGAL	RA-CML	072404	R2B	CYWB0124AB-BVXI	-65/150	0	500	32	0
BZ100CGAL	RA-CML	072404	R2B	CYWB0124AB-BVXI	-65/150	0	1000	31	0
BZ100CGAL	RA-CML	072404	R2C	CYWB0124AB-BVXI	-65/150	0	300	32	0
BZ100CGAL	RA-CML	072404	R2C	CYWB0124AB-BVXI	-65/150	0	500	32	0
BZ100CGAL	RA-CML	072404	R2C	CYWB0124AB-BVXI	-65/150	0	1000	32	0
BZ100CGAL	RA-CML	072404	R3A	CYWB0124AB-BVXI	-65/150	0	300	32	0
BZ100CGAL	RA-CML	072404	R3A	CYWB0124AB-BVXI	-65/150	0	500	32	0
BZ100CGAL	RA-CML	072404	R3A	CYWB0124AB-BVXI	-65/150	0	1000	31	0
BZ100CGAL	RA-CML	072404	R3B	CYWB0124AB-BVXI	-65/150	0	300	31	0
BZ100CGAL	RA-CML	072404	R3B	CYWB0124AB-BVXI	-65/150	0	500	31	0
BZ100CGAL	RA-CML	072404	R3B	CYWB0124AB-BVXI	-65/150	0	1000	31	0
BZ100CGAL	CML-RA	072404	R3C	CYWB0124AB-BVXI	-65/150	0	300	31	0
BZ100CGAL	CML-RA	072404	R3C	CYWB0124AB-BVXI	-65/150	0	500	31	0
BZ100CGAL	CML-RA	072404	R3C	CYWB0124AB-BVXI	-65/150	0	1000	31	0
BZ100CGAL	RA-CML	074003	R2	CYWB0124AB-BVXIT	-65/150	0	500	80	0
BZ100CGAL	RA-CML	074003	R2	CYWB0124AB-BVXIT	-65/150	0	1000	80	0
BZ100CGAL	CML-RA	080503	R1	CYWB0124AB-BVXI	-65/150	0	500	255	0
BZ100CGAL	CML-RA	080503	R1	CYWB0124AB-BVXI	-65/150	0	1000	255	0
BZ100CGAL	RA-CML	080604	R1	CYWB0124AB-BVXI	-65/150	0	500	81	0
BZ100CGAL	RA-CML	080604	R1	CYWB0124AB-BVXI	-65/150	0	1000	81	0
BZ100GAALL	RA-CML	081206	R1	CYWB0226ABS-BVXIES	-65/150	0	500	77	0
BZ100GAALL	RA-CML	081206	R1	CYWB0226ABS-BVXIES	-65/150	0	1000	77	0
BZ56GABGL	RA-CML	082017	R1	CY7C68053-56BAXI	-65/150	0	500	319	0
BZ56GABGL	RA-CML	082017	R1	CY7C68053-56BAXI	-65/150	0	1000	318	0
BZ56GABGL	RA-CML	082017	R1A	CY7C68053-56BAXIT	-65/150	0	500	323	0
BZ56GABGL	RA-CML	082017	R1A	CY7C68053-56BAXIT	-65/150	0	1000	321	0
BZ48	RA-CML	082103	R1	CY62137FV30LL-45BVXI	-65/150	0	500	190	0
BZ48	RA-CML	082103	R1	CY62137FV30LL-45BVXI	-65/150	0	1000	187	0
BZ48	RA-CML	082103	R1A	CY62137FV30LL-45BVXI	-65/150	0	500	189	0
BZ48	RA-CML	082103	R1A	CY62137FV30LL-45BVXI	-65/150	0	1000	188	0
BZ100DGALL	RA-CML	082801	R1	CYWB0124AB-BVXIT	-65/150	0	500	76	0
BZ100DGALL	RA-CML	082801	R1	CYWB0124AB-BVXIT	-65/150	0	1000	69	0
BZ100DGALL	RA-CML	082801	R2	CYWB0124AB-BVXIT	-65/150	0	500	77	0
BZ100DGALL	RA-CML	082801	R3	CYWB0124AB-BVXIT	-65/150	0	500	74	0
BZ100DGALL	RA-CML	082801	R3	CYWB0124AB-BVXIT	-65/150	0	1000	70	0

BZ100DGALL	RA-CML	082801	R4	CYWB0124AB-BVXIT	-65/150	0	500	76	0
BZ100DGALL	RA-CML	082801	R4	CYWB0124AB-BVXIT	-65/150	0	1000	76	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	-65/150	0	500	80	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	-65/150	0	1000	80	0
BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	-65/150	0	500	79	0
BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	-65/150	0	1000	79	0
BZ56IAAAGL	AT-IND	MR074053	R1	CY7C68053-56BAXIT	-65/150	0	500	80	0
BZ56IAAAGL	AT-IND	MR074053	R1	CY7C68053-56BAXIT	-65/150	0	1000	80	0
BZ48CEAALL	G-TAIWAN	MR074055	R1	CY62147EV30LL-45BVXI	-65/150	0	500	80	0
BZ48CEAALL	G-TAIWAN	MR074055	R1	CY62147EV30LL-45BVXI	-65/150	0	1000	79	0
BZ56AGAGL	G-ASE	MR074057	R2	CY7C68013-56BAXC	-65/150	0	500	80	0
BZ56AGAGL	G-ASE	MR074057	R2	CY7C68013-56BAXC	-65/150	0	1000	80	0
BZ100CGAL	RA-CML	MR081018	R1	CYWB0124AB-BVXI	-65/150	0	500	79	0
BZ100CGAL	RA-CML	MR081018	R1	CYWB0124AB-BVXI	-65/150	0	1000	76	0
BZ48DAGLL	RA-CML	MR081019	R1	CY62137FV30LL-45BVXI	-65/150	0	500	80	0
BZ48DAGLL	RA-CML	MR081019	R1	CY62137FV30LL-45BVXI	-65/150	0	1000	80	0
BZ56FAALE	ASE-G	MR081037	R1	CY7C68053-56BAX	-65/150	0	500	80	0
BZ56FAALE	ASE-G	MR081037	R1	CY7C68053-56BAX	-65/150	0	1000	80	0
BZ100BAALL	G-TAIWAN	MR081044	R1	CYDM128B16-55BVXI	-65/150	0	500	74	0
BZ100BAALL	G-TAIWAN	MR081044	R1	CYDM128B16-55BVXI	-65/150	0	1000	74	0
BZ56IAAAGL	AIT-INDONESIA	MR081053	R1	CY7C68053-56BAXI	-65/150	0	500	80	0
BZ56IAAAGL	AIT-INDONESIA	MR081053	R1	CY7C68053-56BAXI	-65/150	0	1000	80	0
BZ48DAGLL	RA-CML	MR082001	R1	CY62137FV30LL-45BVXI	-65/150	0	500	80	0
BZ48DAGLL	RA-CML	MR082001	R1	CY62137FV30LL-45BVXI	-65/150	0	1000	80	0
BZ100CGAL	RA-CML	MR082027	R1	CYWB0124AB-BVXI	-65/150	0	500	80	0
BZ100CGAL	RA-CML	MR082027	R1	CYWB0124AB-BVXI	-65/150	0	1000	80	0
BZ56AGAL	G-TAIWAN	MR082035	R1	CY7C68013A-56BAXC	-65/150	0	500	80	0
BZ56AGAL	G-TAIWAN	MR082035	R1	CY7C68013A-56BAXC	-65/150	0	1000	80	0
BZ48CQAALL	G-TAIWAN	MR082047	R1	CY62137FV30LL-45BVXI	-65/150	0	500	80	0
BZ48CQAALL	G-TAIWAN	MR082047	R1	CY62137FV30LL-45BVXI	-65/150	0	1000	80	0
BZ56IAAAGL	AT-INDS	MR082055	R1	CY7C68053-56BAXI	-65/150	0	500	80	0
BZ56IAAAGL	AT-INDS	MR082055	R1	CY7C68053-56BAXI	-65/150	0	1000	80	0
BZ48CFAALL	G-TAIWAN	MR083004	R1	CY62157EV30-45BVXIT	-65/150	0	500	80	0
BZ48CFAALL	G-TAIWAN	MR083004	R1	CY62157EV30-45BVXIT	-65/150	0	1000	80	0
BZ56GABGL	RA-CML	MR083005	R1	CY7C68053-56BAXIT	-65/150	0	500	80	0
BZ100CGAL	RA-CML	MR083029	R1	CYWB0124AB-BVXI	-65/150	0	500	80	0
BZ100CGAL	RA-CML	MR083029	R1	CYWB0124AB-BVXI	-65/150	0	1000	73	0
BZ48ABDALL	AT-CARSEM	MR083060	R1	CY62137EV30LL-45BVXI	-65/150	0	500	80	0
BZ48CMAALL	G-TAIWAN	NR064007	R1A	CY7C1019DV33-10BVXI	-65/150	0	500	50	0
BZ48CMAALL	G-TAIWAN	NR064007	R1A	CY7C1019DV33-10BVXI	-65/150	0	1000	50	0
BZ48CMAALL	G-TAIWAN	NR064007	R2A	CY7C1019DV33-10BVXI	-65/150	0	100	50	0
BZ48CMAALL	G-TAIWAN	NR064007	R2A	CY7C1019DV33-10BVXI	-65/150	0	500	50	0
BZ48CMAALL	G-TAIWAN	NR064007	R3A	CY7C1019DV33-10BVXI	-65/150	0	500	50	0
BZ48CMAALL	G-TAIWAN	NR064007	R3A	CY7C1019DV33-10BVXI	-65/150	0	1000	50	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	-65/150	0	500	80	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	-65/150	0	1000	80	0
BZ56IAAAGL	AIT-Indonesia	NR072003	R2	CY7C68053-56BAXI	-65/150	0	500	80	0
BZ56IAAAGL	AIT-Indonesia	NR072003	R2	CY7C68053-56BAXI	-65/150	0	1000	79	0
BZ56IAAAGL	AIT-INDONESIA	NR072003	R3	CY7C68053-56BAXI	-65/150	0	500	50	0
BZ56IAAAGL	AIT-INDONESIA	NR072003	R3	CY7C68053-56BAXI	-65/150	0	1000	50	0

BZ56GABGL	RA-CML	NR072032	R1	CY7C68053-56BAXI	-65/150	0	500	50	0
BZ56GABGL	RA-CML	NR072032	R1	CY7C68053-56BAXI	-65/150	0	1000	50	0
BZ56GABGL	RA-CML	NR072032	R2	CY7C68053-56BAXI	-65/150	0	500	45	0
BZ56GABGL	RA-CML	NR072032	R2	CY7C68053-56BAXI	-65/150	0	1000	45	0
BZ56GABGL	RA-CML	NR072032	R3	CY7C68053-56BAXI	-65/150	0	500	45	0
BZ56GABGL	RA-CML	NR072032	R3	CY7C68053-56BAXI	-65/150	0	1000	45	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R1	CYWB0124AB-BVXI	-65/150	0	500	78	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R1	CYWB0124AB-BVXI	-65/150	0	1000	78	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R2	CYWB0124AB-BVXI	-65/150	0	500	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R2	CYWB0124AB-BVXI	-65/150	0	1000	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R3	CYWB0124AB-BVXI	-65/150	0	500	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R3	CYWB0124AB-BVXI	-65/150	0	1000	80	0
BZ100CGAL	RA	RR083024	R4	CYWB0124AB-BVXIT	-65/150	0	100	80	0
BZ100CGAL	RA	RR083024	R4	CYWB0124AB-BVXIT	-65/150	0	300	80	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>			<b>110</b>	<b>records</b>					
<b>Sum</b>								<b>8996</b>	<b>0</b>

## Summary Detail -- HTS Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
<b>FBGA (0.75-0.8, 0.3mm)</b>											
BA48CRALE	T-OSE	MR074046	R1	CY62137CVSL-70BAIT	150	0	500	80	0		
BA48CRALE	T-OSE	MR074046	R1	CY62137CVSL-70BAIT	150	0	1000	80	0		
BA48BQAALE	RA-CML	MR074061	R1	CY62137CVSL-70BAIT	150	0	500	80	0		
BA48BQAALE	RA-CML	MR074061	R1	CY62137CVSL-70BAIT	150	0	1000	80	0		
BA48CRALE	T-TAIWAN	MR074068	R1	CY62137CVSL-70BAIT	150	0	500	80	0		
BA48CRALE	T-TAIWAN	MR074068	R1	CY62137CVSL-70BAIT	150	0	1000	80	0		
BA48CRALE	OSE-T	MR081020	R1	CY62137CVSL-70BAI	150	0	500	79	0		
BA48CRALE	OSE-T	MR081020	R1	CY62137CVSL-70BAI	150	0	1000	79	0		
BA48CRALE	T-OSE	MR082018	R1	CY62137CVSL-70BAI	150	0	500	80	0		
BA48CRALE	T-OSE	MR082018	R1	CY62137CVSL-70BAI	150	0	1000	80	0		
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm)</b>			<b>10</b>	<b>records</b>							
<b>Sum</b>								<b>798</b>	<b>0</b>		
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>											
BK48CPBGL	G-TAIWAN	MR074056	R1	CY7C67200-48BAXIT	150	0	500	80	0		
BK48CPBGL	G-TAIWAN	MR074056	R1	CY7C67200-48BAXIT	150	0	1000	80	0		
BK48WBLL	G-ASE	MR082010	R1	CY7C1021CV33-10BAXI	150	0	500	77	0		
BK48WBLL	G-ASE	MR082010	R1	CY7C1021CV33-10BAXI	150	0	1000	77	0		
BK48DJALL	G	MR083050	R1	CY62177DV30LL-55BAXI	150	0	500	80	0		
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)</b>			<b>5</b>	<b>records</b>							
<b>Sum</b>								<b>394</b>	<b>0</b>		
<b>FBGA (1.0)</b>											
BB100CAALE	G-ASE	MR081067	R1	CYP15G0101DXB-BBI	150	0	500	80	0		
BB100CAALE	G-ASE	MR081067	R1	CYP15G0101DXB-BBI	150	0	1000	80	0		
BB100EAALE	G-TAIWAN	MR082041	R1	CY7B994V-2BBI	150	0	1000	76	0		
BB100EAALE	G-TAIWAN	MR082041	R1	CY7B994V-2BBI	150	0	500	80	0		
BB144CALE	G-TAIWAN	NR072030	R1	CY7C08313AV-167BBC	150	0	1000	50	0		
BB144CALE	G-TAIWAN	NR072030	R1	CY7C08313AV-167BBC	150	0	500	50	0		
BB144CALE	G-TAIWAN	NR072030	R2	CY7C0830AV-167BBC	150	0	500	50	0		
BB144CALE	G-TAIWAN	NR072030	R2	CY7C0830AV-167BBC	150	0	1000	50	0		
BB165	RA-CML	MR074047	R1	CY7C1313BV18-250BZC	150	0	1000	80	0		
BB165AVLE	CML-RA	MR074047	R1	CY7C1313BV18-250BZC	150	0	500	80	0		
BB165AVLE	RA-CML	MR082070	R1	CY7C1313BV18-250BZC	150	0	1000	78	0		
BB165AVLE	RA-CML	MR082070	R1	CY7C1313BV18-	150	0	500	80	0		

				250BZC					
BB165AVLE	RA-CML	NR072019	R13	CY7C1313BV18-250BZC	150	0	500	50	0
BB165AVLE	RA-CML	NR072019	R13	CY7C1313BV18-250BZC	150	0	1000	50	0
BB165AVLE	RA-CML	NR072019	R14	CY7C1313BV18-250BZC	150	0	500	80	0
BB165AVLE	RA-CML	NR072019	R14	CY7C1313BV18-250BZC	150	0	1000	80	0
BB165AVLE	RA-CML	NR072019	R3	CY7C1313BV18-250BZC	150	0	1000	50	0
BB165AVLE	RA-CML	NR072019	R3	CY7C1313BV18-250BZC	150	0	500	50	0
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	150	0	1000	77	0
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	150	0	500	77	0
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	150	0	500	77	0
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	150	0	1000	77	0
BB172AAGE	G-TAIWAN	NR072027	R1	CY7C057V-15BBC	150	0	1000	50	0
BB172AAGE	G-TAIWAN	NR072027	R2	CY7C057V-12BBC	150	0	1000	50	0
BB172AAGE	G-TAIWAN	NR072027	R3	CY7C057V-15BBI	150	0	1000	50	0
BB209BALE	G-TAIWAN	NR072022	R1	CY7C1474V33-167BGC	150	0	1000	47	0
<b>Summary for Package Family: FBGA (1.0)</b>			<b>26</b>	<b>records</b>					
<b>Sum</b>								<b>1,699</b>	<b>0</b>
<b>FBGA (1.0, Pb-free)</b>									
BW165YALL	TAIWAN-G	71211	R4	CY7C1512V18	150	0	500	80	0
BW165YALL	TAIWAN-G	71211	R4	CY7C1512V18	150	0	1000	80	0
<b>Summary for Package Family: FBGA (1.0, Pb-free)</b>			<b>2</b>	<b>records</b>					
<b>Sum</b>								<b>160</b>	<b>0</b>
<b>FLIPCHIP CSP (Pb-Free)</b>									
FN81BGAN	AU - Amkor Taiwan	080501	R1	CYWB0124ABX-FDXIT	150	0	500	90	0
FN81BGAN	AU - Amkor Taiwan	080501	R1	CYWB0124ABX-FDXIT	150	0	1000	90	0
FN81AGAN	AU	NR081001	R1	CYWB0124ABX-FNXIT	150	0	500	90	0
FN81AGAN	AU	NR081001	R1	CYWB0124ABX-FNXIT	150	0	1000	90	0
<b>Summary for Package Family: FLIPCHIP CSP (Pb-Free)</b>			<b>4</b>	<b>records</b>					
<b>Sum</b>								<b>360</b>	<b>0</b>
<b>PBGA (with Heat Spreader)</b>									
BG119SALE	G-TAIWAN	MR074032	R1	CY7C1354C-166BGC	150	0	500	80	0
BG119SALE	G-TAIWAN	MR074032	R1	CY7C1354C-166BGC	150	0	1000	80	0
BG119JALE	G-TAIWAN	MR081047	R1	CY7C1021AV33-8BGC	150	0	500	80	0
BG119JALE	G-TAIWAN	MR081047	R1	CY7C1021AV33-8BGC	150	0	1000	80	0
BG119SALE	G-ASE	MR082021	R1	CY7C1354C-166BGC	150	0	500	80	0
BG119SALE	G-ASE	MR082021	R1	CY7C1354C-166BGC	150	0	1000	80	0
BG119SALE	G-TAIWAN	MR083001	R1	CY7C1354C-166BGC	150	0	500	80	0
BG119SALE	G-TAIWAN	MR083001	R1	CY7C1354C-166BGC	150	0	1000	80	0
<b>Summary for Package Family: PBGA (with Heat Spreader)</b>			<b>8</b>	<b>records</b>					
<b>Sum</b>								<b>640</b>	<b>0</b>
<b>PDIP</b>									

P246DGAAGB	X-MMT	MR081066	R1	CY7C264-35PC	150	0	500	80	0	
P246DGAAGB	X-MMT	MR081066	R1	CY7C264-35PC	150	0	1000	80	0	
<b>Summary for Package Family: PDIP</b>			<b>2</b>	<b>records</b>				<b>160</b>	<b>0</b>	
<b>Sum</b>									<b>0</b>	
<b>PDIP (Pb-Free)</b>										
PZ183DAGN	RA-CML	MR073050	R1	CY7C63723C-PXC	150	0	1000	80	0	
PZ183AXGN	O-INDS	MR081042	R1	CS6632AF	150	0	1000	56	0	
PZ183DAGN	RA-CML	MR081069	R1	CY7C63723C-PXC	150	0	500	80	0	
PZ183DAGN	RA-CML	MR081069	R1	CY7C63723C-PXC	150	0	1000	80	0	
PZ183DAGN	RA-CML	MR082065	R1	CY7C63723C-PXC	150	0	500	80	0	
PZ183DAGN	RA-CML	MR082065	R1	CY7C63723C-PXC	150	0	1000	80	0	
PZ183DBGN	RA-CML	MR083022	R1	CY7C63723C-PXC	150	0	500	80	0	
PZ183AXGN	O-OMEDATA	MR083039	R1	CS6632AF	150	0	500	80	0	
<b>Summary for Package Family: PDIP (Pb-Free)</b>			<b>8</b>	<b>records</b>				<b>616</b>	<b>0</b>	
<b>Sum</b>									<b>0</b>	
<b>PLCC</b>										
J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-15JC	150	0	500	80	0	
J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-15JC	150	0	1000	80	0	
J32RBGAAGB	MMT-X	MR081030	R1	CY7C4231V-15JC	150	0	500	80	0	
J32RBGAAGB	MMT-X	MR081030	R1	CY7C4231V-15JC	150	0	1000	80	0	
J32RBGAAGB	X-MMT	MR082017	R1	CY7B9911V-5JCT	150	0	500	80	0	
J32RBGAAGB	X-MMT	MR082017	R1	CY7B9911V-5JCT	150	0	1000	80	0	
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	150	0	500	80	0	
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	150	0	1000	78	0	
<b>Summary for Package Family: PLCC</b>			<b>8</b>	<b>records</b>				<b>638</b>	<b>0</b>	
<b>Sum</b>									<b>0</b>	
<b>PLCC (Pb-Free)</b>										
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	150	0	500	80	0	
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	150	0	1000	80	0	
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	150	0	500	80	0	
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	150	0	1000	80	0	
JZ32RBGAN	M-PHILIPPINES	MR081063	R1	CY7B991-5JXC	150	0	500	80	0	
JZ32RBGAN	M-PHILIPPINES	MR081063	R1	CY7B991-5JXC	150	0	1000	80	0	
<b>Summary for Package Family: PLCC (Pb-Free)</b>			<b>6</b>	<b>records</b>				<b>480</b>	<b>0</b>	
<b>Sum</b>									<b>0</b>	
<b>PQFP (Pb-free)</b>										
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	150	0	500	80	0	
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	150	0	1000	80	0	
NZ52DXGAN	G-ASEK	MR081004	R1	CY7C136-55NXC	150	0	1000	79	0	
NZ52DXGAN	G-ASEK	MR081004	R1	CY7C136-55NXC	150	0	500	79	0	
NZ52DXGAN	G-ASE	MR082061	R1	CY7C131-25NXC	150	0	500	80	0	
NZ52DXGAN	G-ASE	MR082061	R1	CY7C131-25NXC	150	0	1000	80	0	
<b>Summary for Package Family: PQFP (Pb-free)</b>			<b>6</b>	<b>records</b>				<b>478</b>	<b>0</b>	
<b>Sum</b>									<b>0</b>	
<b>QFN (Open Cavity, Pb-free)</b>										
LB42ABALL	R-CML	NR081004	R1	CYONS10810-LBXC	100	0	1000	77	0	
LB42ABALL	R-CML	NR081004	R1	CYONS10810-LBXC	100	0	500	77	0	
LB42ABALL	R-CML	NR081004	R2	CYONS10810-LBXC	100	0	500	77	0	
LB42ABALL	R-CML	NR081004	R2	CYONS10810-LBXC	100	0	1000	77	0	
LB42ABALL	R-CML	NR081004	R3	CYONS10810-LBXC	100	0	1000	77	0	

LB42ABALL	R-CML	NR081004	R3	CYONS10810-LBXC	100	0	500	77	0
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Summary for Package Family: QFN (Open Cavity, Pb-free)

6 records

Sum 462 0

QFN (0.4mm, Saw Type, Pb-free)

LN32AAAAAL	CA-Malaysia	82008	R1	CY8C21434-24LCXI	150	0	500	77	0
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Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free)

1 records

Sum 77 0

QFN (0.6mm, Punch Type, Pb-Free)

LK32AABAGL	L-KOREA	MR074006	R1	CY8C20434-12LKXI	150	0	500	80	0
LK32AABAGL	L-KOREA	MR074006	R1	CY8C20434-12LKXI	150	0	1000	72	0
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	150	0	500	80	0
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	150	0	1000	68	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	150	0	500	54	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	150	0	1000	54	0
LK32AABGL	L-KOREA	MR074043	R1A	CY8C20434-12LKXI	150	0	500	24	0
LK32AABGL	L-KOREA	MR074043	R1A	CY8C20434-12LKXI	150	0	1000	24	0
LK32AABAGL	L-KOREA	MR081039	R1	CY8C20434-12LKXI	150	0	500	80	0
LK32AABAGL	L-KOREA	MR081039	R1	CY8C20434-12LKXI	150	0	1000	80	0
LK32AABAGL	L-KOREA	MR082022	R1	CY8C20434-12LKXI	150	0	500	80	0
LK32AABAGL	L-KOREA	MR082022	R1	CY8C20434-12LKXI	150	0	1000	80	0
LK32AABAGL	L-KOREA	MR083006	R1	CY8C20424-12LKXI	150	0	500	80	0
LK32AABAGL	L-KOREA	MR083006	R1	CY8C20424-12LKXI	150	0	1000	79	0
LK32AABAGL	L-KOREA	NR072004	R1	CY8C20434-12LKXI	150	0	500	80	0
LK32AABAGL	L-KOREA	NR072004	R1	CY8C20434-12LKXI	150	0	1000	80	0
LK32AABAGL	L-KOREA	NR072004	R2	CY8C20424-12LKXI	150	0	500	78	0
LK32AABAGL	L-KOREA	NR072004	R2	CY8C20424-12LKXI	150	0	1000	77	0
LK32AABAGL	L-KOREA	NR072004	R3	CP6683AM	150	0	500	80	0
LK32AABAGL	L-KOREA	NR072004	R3	CP6683AM	150	0	1000	80	0

Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)

20 records

Sum 1410 0

QFN (0.6mm, Saw Type, Pb-Free)

LQ32DAGLL	CA-MALAYSIA	082602	R1	CY8C23533-24LQXI	150	0	500	80	0
LQ32DAGLL	CA-MALAYSIA	082602	R1	CY8C23533-24LQXI	150	0	1000	80	0
LQ24ABAAL	AT-INDONESIA	MR074008	R1	CP6705ATT	150	0	500	80	0
LQ24ABAAL	AT-INDONESIA	MR074008	R1	CP6705ATT	150	0	1000	80	0
LQ24ABAAL	AIT-INDS	MR081014	R1	CY8C20334-12LQXI	150	0	500	80	0
LQ24ABAAL	AIT-INDS	MR081014	R1	CY8C20334-12LQXI	150	0	1000	80	0
LQ24ABAAL	AT-INDNS	MR082030	R1	CY8C20334-12LQXI	150	0	500	80	0
LQ24ABAAL	AT-INDNS	MR082030	R1	CY8C20334-12LQXI	150	0	1000	80	0
LQ24ABAAL	AT-THAILAND	MR083053	R1	CY8C20324-12LQXI	150	0	500	79	0
LQ24ABAAL	AT-THAILAND	MR083053	R1	CY8C20324-12LQXI	150	0	1000	79	0
LQ24ABAAL	AT-INDOENESIA	NR073002	R1A	CY8C20334-12LQXI	150	0	500	80	0
LQ24ABAAL	AT-INDOENESIA	NR073002	R1A	CY8C20334-12LQXI	150	0	1000	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R1	CY8C20334-12LQXI	150	0	500	79	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R1	CY8C20334-12LQXI	150	0	1000	79	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R2	CY8C20334-12LQXI	150	0	500	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R2	CY8C20334-12LQXI	150	0	1000	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R3	CP6785AM	150	0	500	80	0
LQ24ABAAL	AIT-INDONESIA	NR074003	R3	CP6785AM	150	0	1000	80	0





**Summary for Package Family: QFN (0.6mm, Saw Type, Pb-Free)**

**18 records**

Sum								1436	0
<b>QFN (COL, 0.6mm, Saw Type, Pb-free)</b>									
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	150	0	500	80	0
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	150	0	1000	80	0
LG16AAAAAL	M-PHILS	MR081027	R1	CY8C20234-12LKXI	150	0	500	80	0
LG16AAAAAL	M-PHILS	MR081027	R1	CY8C20234-12LKXI	150	0	1000	80	0
LG16AAAAAL	M-PHILS	MR082028	R1	CY8C20234-12LKXI	150	0	500	80	0
LG16AAAAAL	M-PHILS	MR082028	R1	CY8C20234-12LKXI	150	0	1000	80	0
LG16AAAAAL	M-PHILS	MR083048	R1	CY8C20122-LDX2I	150	0	500	80	0

**Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free)**

**7 records**

Sum								560	0
<b>QFN (Punch Type, Pb-Free)</b>									
LY56AGAGL	L-KOREA	MR073056	R1	CY7C65630-56LFCT	150	0	1000	80	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	150	0	500	80	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	150	0	1000	80	0
LY32AAAGR	L-KOREA	MR081013	R1	CY8C21434-24LFXI	150	0	500	80	0
LY32AAAGR	L-KOREA	MR081013	R1	CY8C21434-24LFXI	150	0	1000	80	0
LY56AGAGL	L-KOREA	MR081028	R1	CY7C65630-56LFXC	150	0	500	80	0
LY56AGAGL	L-KOREA	MR081028	R1	CY7C65630-56LFXC	150	0	1000	80	0
LY56AGAGL	L-KOREA	MR082031	R1	CY7C65630-56LFXC	150	0	500	80	0
LY56AGAGL	L-KOREA	MR082031	R1	CY7C65630-56LFXC	150	0	1000	80	0
LY32AAAGR	L-KOREA	MR082048	R1	CG6672AMT	150	0	500	80	0
LY32AAAGR	L-KOREA	MR082048	R1	CG6672AMT	150	0	1000	80	0

**Summary for Package Family: QFN (Punch Type, Pb-Free)**

**11 records**

Sum								880	0
<b>QFN (Saw Type, Pb-free)</b>									
LT32BAAAGL	CA-THAILAND	MR083038	R1	CG7032AA	150	0	500	80	0
LT32BAAAGL	CA-THAILAND	MR083038	R1	CG7032AA	150	0	1000	80	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R1	CY8C21434-24LTXI	150	0	500	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R1	CY8C21434-24LTXI	150	0	1000	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R2	CY8C21434-24LTXI	150	0	500	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R2	CY8C21434-24LTXI	150	0	1000	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R3	CY8C21434-24LTXI	150	0	500	77	0
LT32BAAAGL	CA-MALAYSIA	NR082002	R3	CY8C21434-24LTXI	150	0	1000	77	0

**Summary for Package Family: QFN (Saw Type, Pb-free)**

**8 records**

Sum								622	0
<b>QSOP (Pb-Free)</b>									
SQ2414AGN	R-CML	MR081031	R1	CY7C63723-QXC	150	0	500	79	0
SQ2414AGN	R-CML	MR081031	R1	CY7C63723-QXC	150	0	1000	79	0
SQ2414AGN	R-CML	MR082036	R1	CY7C63823-QXC	150	0	500	80	0
SQ2414AGN	R-CML	MR082036	R1	CY7C63823-QXC	150	0	1000	80	0
SQ2414ABGN	R-CML	MR083023	R1	CY7C63743-QXC	150	0	500	80	0
SQ2414ABGN	R-CML	MR083023	R1	CY7C63743C-QXC	150	0	500	80	0
SQ2414ABGN	R-CML	MR083023	R1	CY7C63743C-QXC	150	0	1000	80	0

**Summary for Package Family: QSOP (Pb-Free)**

**7 records**

Sum								558	0
<b>RTSOP (Pb-free)</b>									
ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	150	0	500	80	0



ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	150	0	1000	80	0
ZY28R2ALN	R-CML	MR083030	R1	CY62256VNLL-70ZRXT	150	0	500	80	0
ZY28R2ALN	R-CML	MR083030	R1	CY62256VNLL-70ZRXT	150	0	1000	80	0
<b>Summary for Package Family: RTSOP (Pb-free)</b>			<b>4</b>	<b>records</b>					
<b>Sum</b>								<b>320</b>	<b>0</b>
<b>SNC (Pb-Free)</b>									
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	150	0	500	80	0
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	150	0	1000	80	0
SY2831BBLN	R-CML	MR081048	R1	CY62256NLL-55SNXI	150	0	500	80	0
SY2831BBLN	R-CML	MR081048	R1	CY62256NLL-55SNXI	150	0	1000	79	0
SY2831BBLN	R-CML	MR081059	R1	CY62256NLL-55SNXI	150	0	500	78	0
SY2831BBLN	R-CML	MR081059	R1	CY62256NLL-55SNXI	150	0	1000	78	0
SY2831BBLN	R-CML	MR082037	R1	CY62256NLL-70SNXC	150	0	500	80	0
SY2831BBLN	R-CML	MR082037	R1	CY62256NLL-70SNXC	150	0	1000	80	0
SY2831BBLN	R-CML	MR083016	R1	CY62256NLL-70SNXCT	150	0	500	80	0
SY2831BBLN	R-CML	MR083016	R1	CY62256NLL-70SNXCT	150	0	1000	80	0
<b>Summary for Package Family: SNC (Pb-Free)</b>			<b>10</b>	<b>records</b>					
<b>Sum</b>								<b>795</b>	<b>0</b>
<b>SOIC</b>									
S0815BAAGB	O-INDS	MR073020	R1	CY2304SC-2T	150	0	1000	77	0
S0815BAAGB	O-OMEDATA	MR074054	R1	CY2304SI-1T	150	0	1000	77	0
S0815KAGB	M-Phils	MR074062	R1	CY2302SC-1T	150	0	500	80	0
S0815KAGB	M-Phils	MR074062	R1	CY2302SC-1T	150	0	1000	80	0
S0815PAGN	CML-RA	MR081010	R1	CY2305SC-1H	150	0	500	80	0
S0815PAGN	CML-RA	MR081010	R1	CY2305SC-1H	150	0	1000	80	0
S1615EAGB	M-PHILS	MR082014	R1	CY2309SC-1H	150	0	500	80	0
S1615EAGB	M-PHILS	MR082014	R1	CY2309SC-1H	150	0	1000	78	0
<b>Summary for Package Family: SOIC</b>			<b>8</b>	<b>records</b>					
<b>Sum</b>								<b>632</b>	<b>2</b>
<b>SOIC (J-Lead)</b>									
V284CGAGGB	O-OMEDATA	081102	R1	CY7C107BN-15VCT	150	0	1000	77	0
V284CGAGGB	O-INDS	MR073017	R1	CY7C107BN-15VC	150	0	1000	77	0
V284CGAGGB	O-IND	MR074014	R1	CY7C107BN-15VCT	150	0	1000	77	0
V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	150	0	500	80	0
V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	150	0	1000	80	0
<b>Summary for Package Family: SOIC (J-Lead)</b>			<b>5</b>	<b>records</b>					
<b>Sum</b>								<b>391</b>	<b>0</b>
<b>SOIC (J-Lead, Pb-Free)</b>									
VZ2439AGS	O-INDS	MR073016	R1	CY7C187-25VXC	150	0	1000	77	0
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	150	0	500	80	0
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	150	0	1000	80	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	150	0	500	80	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	150	0	1000	80	0
VZ32420GLL	R-CML	MR081008	R1	CY7C109D-10VXI	150	0	500	80	0
VZ32420GLL	R-CML	MR081008	R1	CY7C109D-10VXI	150	0	1000	78	0
VZ28311BLL	CML-R	MR081033	R1	CY7C1399BN-12VXI	150	0	500	80	0
VZ28311BLL	CML-R	MR081033	R1	CY7C1399BN-12VXI	150	0	1000	80	0
VZ444WAGL	R-CML	MR081050	R1	CY7C1021B-12VXC	150	0	500	80	0
VZ444WAGL	R-CML	MR081050	R1	CY7C1021B-12VXC	150	0	1000	79	0
VZ3646BGLL	R-CML	MR082009	R1	CY7C1049CV33-10VXC	150	0	500	80	0

VZ3646BGLL	R-CML	MR082009	R1	CY7C1049CV33-10VXC	150	0	1000	80	0
VZ28313BLN	R-CML	MR082056	R1	CY7C1399BN-12VXC	150	0	500	80	0
VZ28313BLN	R-CML	MR082056	R1	CY7C1399BN-12VXC	150	0	1000	80	0
VZ28313BLN	R-CML	MR083003	R1	CY7C1399BN-12VXC	150	0	500	80	0
VZ28313BLN	R-CML	MR083003	R1	CY7C1399BN-12VXC	150	0	1000	80	0
VZ444AABLL	R-CML	MR083035	R1	CY7C1021DV33-10VXI	150	0	500	78	0
VZ444AABLL	R-CML	MR083035	R1	CY7C1021DV33-10VXI	150	0	1000	76	0

Summary for Package Family: SOIC (J-Lead, Pb-Free)

19 records

Sum 1508 0

SOIC (Pb-Free)

SZ815CGAN	M - Manila	080803	R1	CY2305CSXI-1H	150	0	1000	80	0
SZ1615DGN	M-Amkor	081907	R1	CY2309CSXI-1H	150	0	500	80	0
SZ1615DGN	M-Amkor	081907	R1	CY2309CSXI-1H	150	0	1000	80	0
SZ1615NAGN	CA-MALAYSIA	082203	R1	CY8C20180-SX2I	150	0	500	77	0
SZ1615NAGN	CA-MALAYSIA	082203	R1	CY8C20180-SX2I	150	0	1000	77	0
SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	150	0	500	80	0
SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	150	0	1000	80	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	150	0	500	80	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	150	0	1000	80	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	150	0	500	80	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	150	0	1000	80	0
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	150	0	500	80	0
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	150	0	1000	80	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	150	0	500	80	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	150	0	1000	80	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	150	0	500	80	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	150	0	1000	80	0
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	150	0	500	80	0
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	150	0	1000	80	0
SZ1615EGN	M-PHIL	MR081005	R1	CY2309SXC-1HT	150	0	500	80	0
SZ1615EGN	M-PHIL	MR081005	R1	CY2309SXC-1HT	150	0	1000	75	0
SZ32157BLN	R-CML	MR081006	R1	CG6707AM	150	0	500	80	0
SZ32157BLN	R-CML	MR081006	R1	CG6707AM	150	0	1000	80	0
SZ2032GAN	R-CML	MR081012	R1	CY2291FX	150	0	500	80	0
SZ2032GAN	R-CML	MR081012	R1	CY2291FX	150	0	1000	80	0
SZ815PAGN	RA-CML	MR081034	R1	CY2305SXC-1H	150	0	500	80	0
SZ815PAGN	RA-CML	MR081034	R1	CY2305SXC-1H	150	0	1000	80	0
SZ1615FAL	T-OSE	MR081049	R1	CY2309CSXC-1	150	0	500	80	0
SZ1615FAL	T-OSE	MR081049	R1	CY2309CSXC-1	150	0	1000	80	0
SZ324516LL	R-CML	MR082005	R1	CY62148ELL-55SXI	150	0	500	80	0
SZ324516LL	R-CML	MR082005	R1	CY62148ELL-55SXI	150	0	1000	80	0
SZ28327BGL	R-CML	MR082006	R1	CY8C27443-24SXI	150	0	500	80	0
SZ28327BGL	R-CML	MR082006	R1	CY8C27443-24SXI	150	0	1000	80	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	150	0	500	80	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	150	0	1000	80	0
SZ1615KGN	RA-CML	MR082015	R1	CY2309SXC-1HT	150	0	500	80	0
SZ1615KGN	RA-CML	MR082015	R1	CY2309SXC-1HT	150	0	1000	80	0
SZ1615FAL	T-OSE	MR082016	R1	CY8C201A0-SX2I	150	0	500	80	0
SZ1615FAL	T-OSE	MR082016	R1	CY8C201A0-SX2I	150	0	1000	80	0
SZ1815CGAN	M-PHILS	MR082023	R1	CY8C24123A-24SXI	150	0	500	80	0

SZ1815CGAN	M-PHILS	MR082023	R1	CY8C24123A-24SXI	150	0	1000	80	0	
SZ1615EGN	M-PHILS	MR082025	R1	CY2309NZSXC-1H	150	0	500	80	0	
SZ1615EGN	M-PHILS	MR082025	R1	CY2309NZSXC-1H	150	0	1000	80	0	
SZ24312BGN	R-CML	MR082057	R1	CY7C63743C-SXC	150	0	500	80	0	
SZ24312BGN	R-CML	MR082057	R1	CY7C63743C-SXC	150	0	1000	80	0	
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	150	0	500	80	0	
SZ1615DGN	M-PHILS	MR083009	R1	CY2292SXL-1X6T	150	0	1000	80	0	
SZ324516BL	R-CML	MR083017	R1	CY62148ELL-55SXIT	150	0	500	80	0	
SZ324516BL	R-CML	MR083017	R1	CY62148ELL-55SXIT	150	0	1000	80	0	
SZ28327BGL	R-CML	MR083018	R1	CY8C27443-24SXIT	150	0	500	80	0	
SZ28327BGL	R-CML	MR083018	R1	CY8C27443-24SXIT	150	0	1000	80	0	
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	150	0	500	80	0	
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	150	0	1000	80	0	
SZ24315BGN	RA-CML	MR083025	R1	CY7C63823-SXC	150	0	500	80	0	
SZ24315BGN	RA-CML	MR083025	R1	CY7C63823-SXC	150	0	1000	80	0	
SZ815PABGN	RA-CML	MR083034	R1	CY2305SXC-1H	150	0	500	78	0	
SZ815PABGN	RA-CML	MR083034	R1	CY2305SXC-1H	150	0	1000	78	0	
SZ1615FAL	T-TAIWAN	MR083041	R1	CY23EP09SXC-1H	150	0	500	80	0	
SZ1615FAL	T-TAIWAN	MR083041	R1	CY23EP09SXC-1H	150	0	1000	80	0	
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXL-1T1	150	0	1000	80	0	
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	150	0	1000	80	0	
SZ815PAGN	RA-CML	NR081002	R14	CY22560SXI	150	0	500	80	0	
SZ815PAGN	RA-CML	NR081002	R14	CY22560SXI	150	0	1000	80	0	
SZ815PAGN	RA-CML	NR081002	R2	CY25560SXC	150	0	500	80	0	
SZ815PAGN	RA-CML	NR081002	R2	CY25560SXC	150	0	1000	80	0	
SZ15PAGN	RA-CML	NR081002	R3	CY25560SXC	150	0	500	80	0	
SZ15PAGN	RA-CML	NR081002	R3	CY25560SXC	150	0	1000	80	0	
<b>Summary for Package Family: SOIC (Pb-Free)</b>				<b>67</b>	<b>records</b>					
<b>Sum</b>								<b>5345</b>	<b>0</b>	
<b>SSOP (Pb-Free)</b>										
SP2023GAL	T-TAIWAN	081002	R2	CY8C24223BC-24PVXIT	150	0	1000	80	0	
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	150	0	500	80	0	
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	150	0	1000	80	0	
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	150	0	500	80	0	
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	150	0	1000	80	0	
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	150	0	500	80	0	
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	150	0	1000	80	0	
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	150	0	500	79	0	
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	150	0	1000	79	0	
SP563BGAL	R-CML	MR081007	R1	CY7C68300C-56PVXC	150	0	500	80	0	
SP563BGAL	R-CML	MR081007	R1	CY7C68300C-56PVXC	150	0	1000	80	0	
SP28214GL	T-OSE	MR081009	R1	CY8C24494-24PVXI	150	0	500	80	0	
SP28214GL	T-OSE	MR081009	R1	CY8C24494-24PVXI	150	0	1000	80	0	
SP28215GGL	RA-CML	MR081016	R1A	CY8C21534-24PVXI	150	0	500	80	0	
SP28215GGL	RA-CML	MR081016	R1A	CY8C21534-24PVXI	150	0	1000	80	0	
SP2822BGL	M-PHILS	MR081043	R1	CY8C21534-24PVXAT	150	0	500	80	0	
SP2822BGL	M-PHILS	MR081043	R1	CY8C21534-24PVXAT	150	0	1000	80	0	
SP2029AAGL	RA-CML	MR081064	R1	CY8C21334-24PVXI	150	0	500	80	0	
SP2029AAGL	RA-CML	MR081064	R1	CY8C21334-24PVXI	150	0	1000	80	0	
SP202AAAGN	RA-CML	MR082007	R1	CP6650AMT	150	0	500	80	0	

SP202AAAGN	RA-CML	MR082007	R1	CP6650AMT	150	0	1000	80	0
SP563BBBGL	R-CML	MR082008	R1	CY7C68300C-56PVXC	150	0	500	80	0
SP563BBBGL	R-CML	MR082008	R1	CY7C68300C-56PVXC	150	0	1000	80	0
SP28214GL	T-OSE	MR082013	R1	CY8C26443-24PVX	150	0	500	80	0
SP28214GL	T-OSE	MR082013	R1	CY8C26443-24PVX	150	0	1000	80	0
SP2822BGL	M-PHILS	MR082038	R1	CY8C24423A-12PVXE	150	0	500	80	0
SP2822BGL	M-PHILS	MR082038	R1	CY8C24423A-12PVXE	150	0	1000	80	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	150	0	500	80	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	150	0	1000	79	0
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	150	0	500	80	0
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	150	0	1000	80	0
SP563BBBG	R-CML	MR083011	R1	CY7C68013-56PVXC	150	0	500	80	0
SP563BBBG	R-CML	MR083011	R1	CY7C68013-56PVXC	150	0	1000	79	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	150	0	500	80	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	150	0	1000	80	0
SP28214GL	T-TAIWAN	MR083036	R1	CY8C9520A-24PVXI	150	0	500	80	0
SP28214GL	T-TAIWAN	MR083036	R1	CY8C9520A-24PVXI	150	0	1000	80	0

Summary for Package Family: SSOP (Pb-Free)

37 records  
Sum 2956 0

TQFP

A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	150	0	500	80	0
A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	150	0	1000	80	0
A32BXGBGB	Q-KOREA	MR081038	R1	CY7C4221V-15AC	150	0	500	80	0
A32BXGBGB	Q-KOREA	MR081038	R1	CY7C4221V-15AC	150	0	1000	80	0
A32LXGXGB	Q-KOREA	MR082024	R1	CY29948AC	150	0	500	80	0
A32LXGXGB	Q-KOREA	MR082024	R1	CY29948AC	150	0	1000	79	0
A32LXGXGB	Q-KOREA	MR083012	R1	CY29948AI	150	0	500	80	0
A32LXGXGB	Q-KOREA	MR083012	R1	CY29948AI	150	0	1000	80	0

Summary for Package Family: TQFP

8 records  
Sum 639 0

TQFP (10mm X 10mm)

AS64CGAGB	Q-KOREA	MR081026	R1	CY7C4285-15ASI	150	0	500	80	0
AS64CGAGB	Q-KOREA	MR081026	R1	CY7C4285-15ASI	150	0	1000	80	0

Summary for Package Family: TQFP (10mm X 10mm)

2 records  
Sum 160 0

Sum

TQFP (Pb-Free)

AZ100RIBLL	CML-R	071211	R1	CY7C1370	150	0	500	40	0
AZ100RIBLL	CML-R	071211	R1	CY7C1370	150	0	1000	40	0
AZ100RIBLL	CML-R	071211	R2	CY7C1370	150	0	500	40	0
AZ100RIBLL	CML-R	071211	R2	CY7C1370	150	0	1000	40	0
AZ100RAALL	R-CML	080609	R2A	CY7C1370	150	0	80	84	0
AZ100RAALL	R-CML	080609	R2A	CY7C1370	150	0	168	84	0
AZ100RAALL	R-CML	080609	R2B	CY7C1370	150	0	80	85	0
AZ100RAALL	R-CML	080609	R2B	CY7C1370	150	0	168	85	0
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	150	0	500	80	0
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	150	0	1000	80	0
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	150	0	500	80	0
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	150	0	1000	80	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	150	0	500	80	0

AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	150	0	1000	80	0
AZ32BXGAN	Q-KOREA	MR081015	R1	CY7C4201V-15AXC	150	0	500	80	0
AZ32BXGAN	Q-KOREA	MR081015	R1	CY7C4201V-15AXC	150	0	1000	80	0
AZ100SFAL	R-CML	MR081017	R1	CY7C024-25AXC	150	0	500	80	0
AZ100SFAL	R-CML	MR081017	R1	CY7C024-25AXC	150	0	1000	76	0
AZ100RXBLL	R-CML	MR081045	R1	CY7C1360C-166AXC	150	0	500	80	0
AZ100RXBLL	R-CML	MR081045	R1	CY7C1360C-166AXC	150	0	1000	80	0
AZ32GXGAN	G-ASE	MR081051	R1	CY29942AXI	150	0	500	80	0
AZ32GXGAN	G-ASE	MR081051	R1	CY29942AXI	150	0	1000	80	0
AZ144AAAGR	Q-KOREA	MR081054	R1	CY7C056V-15AXC	150	0	500	79	0
AZ144AAAGR	Q-KOREA	MR081054	R1	CY7C056V-15AXC	150	0	1000	79	0
AZ128SABLL	R-CML	MR082004	R1	CY7C68013A-128AXC	150	0	500	80	0
AZ128SABLL	R-CML	MR082004	R1	CY7C68013A-128AXC	150	0	1000	80	0
AZ32GXGAN	G-ASE	MR082020	R1	CY29942AXI	150	0	500	80	0
AZ32GXGAN	G-ASE	MR082020	R1	CY29942AXI	150	0	1000	80	0
AZ32GXGAN	G-TAIWAN	MR082020	R1A	CY22942AXI	150	0	500	78	0
AZ32GXGAN	G-TAIWAN	MR082020	R1A	CY22942AXI	150	0	1000	78	0
AZ44SGGAN	R-CML	MR082040	R1	CS6567AM	150	0	500	80	0
AZ44SGGAN	R-CML	MR082040	R1	CS6567AM	150	0	1000	80	0
AZ100SFA	R-CML	MR082049	R1	CY7C024-25AXC	150	0	500	80	0
AZ100SFA	R-CML	MR082049	R1	CY7C024-25AXC	150	0	1000	79	0
AZ32BXGAN	Q-KOREA	MR082054	R1	CY7C4251V-15AXC	150	0	500	80	0
AZ32BXGAN	Q-KOREA	MR082054	R1	CY7C4251V-15AXC	150	0	1000	80	0
AZ44SGGAN	R-CML	MR082060	R1	CS6567AM	150	0	500	80	0
AZ44SGGAN	R-CML	MR082060	R1	CS6567AM	150	0	1000	80	0
AZ44SGGAN	R-CML	MR083014	R1	CS6567AM	150	0	500	80	0
AZ44SGGAN	R-CML	MR083014	R1	CS6567AM	150	0	1000	80	0
AZ32BXGAN	Q-KOREA	MR083031	R1	CY7C4251V-25AXC	150	0	500	80	0
AZ32BXGAN	Q-KOREA	MR083031	R1	CY7C4251V-25AXC	150	0	1000	80	0
AZ100SEAL	RA-CML	MR083032	R1	CY7B994V-5AXI	150	0	500	80	0
AZ100SEAL	RA-CML	MR083032	R1	CY7B994V-5AXI	150	0	1000	80	0

Summary for Package Family: TQFP (Pb-Free)

44 records

3367 0

Sum

EXPOSED TSOP (Pb-free)

ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXEC	150	0	500	80	0
ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXEC	150	0	1000	80	0

Summary for Package Family : EXPOSED TSOP (Pb-free)

2 records

160 0

Sum

TSOP (Pb-free)

ZT32RABALL	T-TAIWAN	MR073024	R1	CY62128ELL-45ZXIT	150	0	1000	79	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	150	0	500	80	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	150	0	1000	80	0
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	150	0	500	80	0
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	150	0	1000	80	0
ZT28R4AGL	R-CML	MR081058	R1	CY7C1399BNL-12ZXC	150	0	500	80	0
ZT28R4AGL	R-CML	MR081058	R1	CY7C1399BNL-12ZXC	150	0	1000	80	0
ZT32RABALL	T-TAIWAN	MR081060	R1	CY62128EV30LL-45ZXI	150	0	500	80	0
ZT32RABALL	T-TAIWAN	MR081060	R1	CY62128EV30LL-45ZXI	150	0	1000	79	0
ZT32RABALL	T-OSE	MR082019	R1	CY62128EV30LL-45ZXI	150	0	500	80	0

ZT32RABALL	T-OSE	MR082019	R1	CY62128EV30LL-45ZXI	150	0	1000	80	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	150	0	500	80	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	150	0	500	78	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	150	0	1000	80	0
ZT28R4BGL	R-CML	MR083028	RIA	CY7C1399BN-12ZXC	150	0	1000	76	0
ZT32RABALL	T-OSE	MR083051	R1	CY62128BLL-70ZXC	150	0	500	80	0
ZT32RABALL	T-OSE	MR083051	R1	CY62128BLL-70ZXC	150	0	1000	80	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	150	0	500	45	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	150	0	1000	45	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	150	0	500	45	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	150	0	1000	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	150	0	500	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	150	0	1000	37	0

Summary for Package Family: TSOP (Pb-free) 23 records

Sum 1614 0

TSOP I (Pb-Free)

ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	150	0	500	80	0
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	150	0	1000	80	0
ZB32RHALN	R-CML	MR081029	R1	CY62128EV30LL-45AZXI	150	0	500	80	0
ZB32RHALN	R-CML	MR081029	R1	CY62128EV30LL-45AZXI	150	0	1000	80	0
ZB32RHALN	R-CML	MR082003	R1	CY62128EV30LL-45ZAXI	150	0	500	80	0
ZB32RHALN	R-CML	MR082003	R1	CY62128EV30LL-45ZAXI	150	0	1000	80	0
ZB32RHALL	R-CML	MR082053	R1	CY62128DV30LL-55ZAXI	150	0	500	80	0
ZB32RHALL	R-CML	MR082053	R1	CY62128DV30LL-55ZAXI	150	0	1000	80	0
ZB32RHBALN	R-CML	MR083042	R1	CY62128ELL-45ZAXI	150	0	500	80	0
ZB32RHBALN	R-CML	MR083042	R1	CY62128ELL-45ZAXI	150	0	1000	80	0

Summary for Package Family: TSOP I (Pb-Free) 10 records

Sum 800 0

TSOP II

ZS444ABAL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	150	0	500	80	0
ZS444ABAL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	150	0	1000	80	0

Summary for Package Family: TSOP II 2 records

Sum 160 0

TSOP II (Pb-Free)

ZW544AALL	G-TAIWAN	MR073058	R1	CY7C1069AV33-12ZXC	150	0	1000	80	0
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	150	0	500	80	0
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	150	0	1000	80	0
ZW324GALL	T-OSE	MR074042	R1	CY7C1019D-10ZSXI	150	0	500	80	0
ZW324GALL	T-OSE	MR074042	R1	CY7C1019D-10ZSXI	150	0	1000	80	0
ZW544AALL	G-ASEK	MR081002	R1	CY7C1061AV33-12ZXC	150	0	500	80	0
ZW544AALL	G-ASEK	MR081002	R1	CY7C1061AV33-12ZXC	150	0	1000	80	0
ZW444AMBLN	R-CML	MR081003	R1	CY62157EV30LL-45ZSXI	150	0	500	80	0
ZW444AMBLN	R-CML	MR081003	R1	CY62157EV30LL-45ZSXI	150	0	1000	80	0
ZW324CBLL	OSE-T	MR081025	R1	CY62148ELL-45ZSXI	150	0	500	80	0
ZW324CBLL	OSE-T	MR081025	R1	CY62148ELL-45ZSXI	150	0	1000	80	0
ZW444AMBLN	R-CML	MR082002	R1	CY62146EV30LL-45SZSX	150	0	500	80	0
ZW444AMBLN	R-CML	MR082002	R1	CY62146EV30LL-45SZSX	150	0	1000	80	0
ZW324CBLL	T-OSE	MR082026	R1	CY62148ELL-45ZSXI	150	0	500	80	0
ZW324CBLL	T-OSE	MR082026	R1	CY62148ELL-45ZSXI	150	0	1000	80	0

ZW544AALL	G-ASEK	MR082034	R1A	CY7C1069AV33-10ZXC	150	0	500	79	0
ZW544AALL	G-ASEK	MR082034	R1A	CY7C1069AV33-10ZXC	150	0	1000	78	0
ZW544AALL	G-TAIWAN	MR083002	R1	CY7C1069AV33-10ZX	150	0	500	80	0
ZW544AALL	G-TAIWAN	MR083002	R1	CY7C1069AV33-10ZX	150	0	1000	80	0
ZW444AHBLL	R-CML	MR083020	R1	CY7C1021DV33-10ZSXI	150	0	500	80	0
ZW444AHBLL	R-CML	MR083020	R1	CY7C1021DV33-10ZSXI	150	0	1000	80	0
ZW324CBLL	T-OSE	MR083043	R1	CY62148EV30LL-45ZSXI	150	0	500	80	0
ZW324CBLL	T-OSE	MR083043	R1	CY62148EV30LL-45ZSXI	150	0	1000	80	0
ZW444AJBLN	R-CML	MR083071	R1	CY7C1021CV33-10ZXC	150	0	1000	80	0

Summary for Package Family: TSOP II (Pb-Free) 24 records

Sum 1917 0

TSSOP

Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	150	0	500	80	0
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	150	0	1000	80	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	150	0	500	80	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	150	0	1000	80	0
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	150	0	500	80	0
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	150	0	1000	80	0
Z1620GAGN	RA-CML	MR081036	R1	CY2309ZC-1H	150	0	500	80	0
Z1620GAGN	RA-CML	MR081036	R1	CY2309ZC-1H	150	0	1000	80	0
Z1620GAGN	RA-CML	MR082029	R1	CY2309ZC-1H	150	0	500	79	0
Z1620GAGN	RA-CML	MR082029	R1	CY2309ZC-1H	150	0	1000	79	0
Z1611XAGB	M-PHILS	MR082033	R1	CY2308ZC-1H	150	0	500	80	0
Z1611XAGB	M-PHILS	MR082033	R1	CY2308ZC-1H	150	0	1000	80	0
Z1620GAGN	RA-CML	MR083033	R1	CY2309ZC-1H	150	0	500	80	0
Z1620GAGN	RA-CML	MR083033	R1	CY2309ZC-1H	150	0	1000	80	0

Summary for Package Family: TSSOP 14 records

Sum 1118 0

TSSOP (Pb-Free)

ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	150	0	500	78	0
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	150	0	1000	78	0
ZZ1614HAN	OSE-T	MR081011	R1	CY22395FXC	150	0	500	80	0
ZZ1614HAN	OSE-T	MR081011	R1	CY22395FXC	150	0	1000	80	0
ZZ1620GAN	RA-CML	MR081046	R1	CY22392ZXI-384	150	0	500	80	0
ZZ1620GAN	RA-CML	MR081046	R1	CY22392ZXI-384	150	0	1000	78	0
ZZ1613HAN	T-OSE	MR082011	R1	CY2308ZXI-1HT	150	0	500	80	0
ZZ1613HAN	T-OSE	MR082011	R1	CY2308ZXI-1HT	150	0	1000	80	0
ZZ1620GAN	RA-CML	MR082032	R1	CY2308ZXI-1H	150	0	500	80	0
ZZ1620GAN	RA-CML	MR082032	R1	CY2308ZXI-1H	150	0	1000	80	0
ZZ1620GBAN	RA-CML	MR083015	R1	CY22150FZXI	150	0	500	80	0
ZZ1620GBAN	RA-CML	MR083015	R1	CY22150FZXI	150	0	1000	80	0
ZZ0812BGL	T-TAIWAN	MR083044	R1	CY24904ZXC	150	0	500	80	0
ZZ0812BGL	T-TAIWAN	MR083044	R1	CY24904ZXC	150	0	1000	80	0
ZZ2817AGL	RA-CML	NR072006	R2	CY28547ZXC	150	0	1000	75	0
ZZ2817AGL	RA-CML	NR072006	R3	CY24270ZXC	165	0	1000	80	0

Summary for Package Family: TSSOP (Pb-Free) 16 records

Sum 1269 0

VFBGA (0.75-0.8, 0.3mm)

BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	150	0	500	80	0
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BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	150	0	1000	80	0
BV48AAALE	G-TAIWAN	MR083013	R1	CY62157DV30LL-55BVI	150	0	500	80	0
BV48AAALE	G-TAIWAN	MR083013	R1	CY62157DV30LL-55BVI	150	0	1000	80	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)</b>			<b>4</b>	<b>records</b>					
<b>Sum</b>								<b>320</b>	<b>0</b>
<b>VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>									
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	150	0	500	80	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	150	0	1000	80	0
BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	150	0	500	80	0
BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	150	0	1000	77	0
BZ56IAAAGL	AT-IND	MR074053	R1	CY7C68053-56BAXIT	150	0	500	80	0
BZ56IAAAGL	AT-IND	MR074053	R1	CY7C68053-56BAXIT	150	0	1000	80	0
BZ48CEAALL	G-TAIWAN	MR074055	R1	CY62147EV30LL-45BVXI	150	0	500	80	0
BZ48CEAALL	G-TAIWAN	MR074055	R1	CY62147EV30LL-45BVXI	150	0	1000	79	0
BZ56AGAGL	G-ASE	MR074057	R2	CY7C68013-56BAXC	150	0	500	80	0
BZ56AGAGL	G-ASE	MR074057	R2	CY7C68013-56BAXC	150	0	1000	80	0
BZ100CGAL	RA-CML	MR081018	R1	CYWB0124AB-BVXI	150	0	500	80	0
BZ100CGAL	RA-CML	MR081018	R1	CYWB0124AB-BVXI	150	0	1000	80	0
BZ48DAGLL	RA-CML	MR081019	R1	CY62137FV30LL-45BVXI	150	0	500	80	0
BZ48DAGLL	RA-CML	MR081019	R1	CY62137FV30LL-45BVXI	150	0	1000	80	0
BZ56FAALE	ASE-G	MR081037	R1	CY7C68053-56BAX	150	0	500	80	0
BZ56FAALE	ASE-G	MR081037	R1	CY7C68053-56BAX	150	0	1000	80	0
BZ100BAALL	G-TAIWAN	MR081044	R1	CYDM128B16-55BVXI	150	0	500	78	0
BZ100BAALL	G-TAIWAN	MR081044	R1	CYDM128B16-55BVXI	150	0	1000	75	0
BZ56IAAAGL	AIT-INDONESIA	MR081053	R1	CY7C68053-56BAXI	150	0	500	80	0
BZ56IAAAGL	AIT-INDONESIA	MR081053	R1	CY7C68053-56BAXI	150	0	1000	80	0
BZ48DAGLL	RA-CML	MR082001	R1	CY62137FV30LL-45BVXI	150	0	500	79	0
BZ48DAGLL	RA-CML	MR082001	R1	CY62137FV30LL-45BVXI	150	0	1000	79	0
BZ100CGAL	RA-CML	MR082027	R1	CYWB0124AB-BVXI	150	0	500	80	0
BZ100CGAL	RA-CML	MR082027	R1	CYWB0124AB-BVXI	150	0	1000	79	0
BZ56AGAL	G-TAIWAN	MR082035	R1	CY7C68013A-56BAXC	150	0	500	80	0
BZ56AGAL	G-TAIWAN	MR082035	R1	CY7C68013A-56BAXC	150	0	1000	80	0
BZ48CQAALL	G-TAIWAN	MR082047	R1	CY62137FV30LL-45BVXI	150	0	500	80	0
BZ48CQAALL	G-TAIWAN	MR082047	R1	CY62137FV30LL-45BVXI	150	0	1000	79	0
BZ56IAAAGL	AT-INDS	MR082055	R1	CY7C68053-56BAXI	150	0	500	80	0
BZ56IAAAGL	AT-INDS	MR082055	R1	CY7C68053-56BAXI	150	0	1000	79	0
BZ48CFAALL	G-TAIWAN	MR083004	R1	CY62157EV30-45BVXIT	150	0	500	80	0
BZ48CFAALL	G-TAIWAN	MR083004	R1	CY62157EV30-45BVXIT	150	0	1000	79	0
BZ56GABGL	RA-CML	MR083005	R1	CY7C68053-56BAXIT	150	0	500	80	0
BZ56GABGL	RA-CML	MR083005	R1	CY7C68053-56BAXIT	150	0	1000	80	0
BZ100CGAL	RA-CML	MR083029	R1	CYWB0124AB-BVXI	150	0	500	80	0
BZ100CGAL	RA-CML	MR083029	R1	CYWB0124AB-BVXI	150	0	1000	80	0
BZ48ABDALL	AT-CARSEM	MR083060	R1	CY62137EV30LL-45BVXI	150	0	500	80	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	165	0	1000	80	0
BZ56IAAAGL	AIT-Indonesia	NR072003	R2	CY7C68053-56BAXI	150	0	1000	80	0
BZ56IAAAGL	AIT-INDONESIA	NR072003	R3	CY7C68053-56BAXI	150	0	500	50	0
BZ56IAAAGL	AIT-INDONESIA	NR072003	R3	CY7C68053-56BAXI	150	0	1000	50	0
BZ56GABGL	RA-CML	NR072032	R1	CY7C68053-56BAXI	150	0	500	45	0
BZ56GABGL	RA-CML	NR072032	R1	CY7C68053-56BAXI	150	0	1000	45	0
BZ56GABGL	RA-CML	NR072032	R2	CY7C68053-56BAXI	150	0	500	45	0

BZ56GABGL	RA-CML	NR072032	R2	CY7C68053-56BAXI	150	0	1000	45	0
BZ56GABGL	RA-CML	NR072032	R3	CY7C68053-56BAXI	150	0	500	42	0
BZ56GABGL	RA-CML	NR072032	R3	CY7C68053-56BAXI	150	0	1000	42	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R1	CYWB0124AB-BVXI	150	0	500	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R1	CYWB0124AB-BVXI	150	0	1000	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R2	CYWB0124AB-BVXI	150	0	100	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R2	CYWB0124AB-BVXI	150	0	500	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R3	CYWB0124AB-BVXI	150	0	500	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R3	CYWB0124AB-BVXI	150	0	1000	80	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>				<b>53</b>	<b>records</b>				
<b>Sum</b>								<b>3947</b>	<b>0</b>