



## 2007 Q4 RELIABILITY REPORT

### TABLE OF CONTENTS

<b>1.0</b>	<b>OVERVIEW OF CYPRESS SEMICONDUCTOR TOTAL QUALITY MANAGEMENT SYSTEM</b>	<b>2</b>
<b>2.0</b>	<b>DEVICE RELIABILITY</b>	<b>3</b>
<b>2.1</b>	<b>EARLY FAILURE RATE SUMMARY</b>	<b>3</b>
<b>2.2</b>	<b>LONG TERM FAILURE RATE SUMMARY</b>	<b>4</b>
<b>2.3</b>	<b>DATA RETENTION SUMMARY</b>	<b>5</b>
<b>3.0</b>	<b>PACKAGE RELIABILITY</b>	<b>6</b>
<b>3.1</b>	<b>PRESSURE COOKER TEST</b>	<b>7</b>
<b>3.2</b>	<b>HAST (HIGHLY ACCELERATED STRESS TEST)</b>	<b>8</b>
<b>3.3</b>	<b>TEMPERATURE CYCLE</b>	<b>9</b>
<b>3.4</b>	<b>HIGH TEMPERATURE STORAGE</b>	<b>10</b>
	<b>APPENDIX A: FAILURE RATE CALCULATION</b>	<b>11</b>
	<b>APPENDIX B: TEMPERATURE CYCLING STRESS MODELS</b>	<b>15</b>
	<b>APPENDIX C: EQUIVALENCE OF STRESS TEST CONDITIONS</b>	<b>17</b>
	<b>APPENDIX D: RELIABILITY DATA</b>	<b>18</b>



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

This report summarizes Cypress Semiconductor Product Reliability for the period of the 4<sup>th</sup> quarter of 2007. 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

---



## 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	18,581	0	Insufficient	0	None
C8	554,364	0	10	0	None
C9	3,185,261	27	27	415	Fab defect-27 (see Note 2)
L28	14,400	0	Insufficient	0	None
L8	156,528	0	Insufficient	0	None
R42	35,880	0	Insufficient	0	None
R5	24,528	0	Insufficient	0	None
R7	1,472,682	0	4	0	None
R8	663,023	2	14	94	SAC distance <100A-1 (see Note 3), Particle defect-1 (see Note 4)
R9	6,265,693	6	3	34	No visual defect-4, Metal defect-2 (see Note 5)
R95	1,844,114	1	3	11	Particle defect-1 (see Note 6)
S4	1,048,104	0	5	0	None
STARM	63,453	0	Insufficient	0	None
UMC 0.18	35,272	0	Insufficient	0	None
<b>Grand Total</b>	<b>15,381,883</b>	<b>36</b>	<b>7</b>	<b>79</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) CAR 200709049 – Improve process margin for Poly and LI mask.  
 3) CAR 200710021 – Reduce critical dimensions of contacts to improve process margin.  
 4) CAR 200710033 – Implement test screen.  
 5) Improve fab defect and test screen.  
 6) CAR 200734021 – Reduce metal roughness and turn on new metal etch.

## 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	177,290	0	30	None
C8	628,183	0	9	None
C9	63,871	1	Insufficient	No visual defect-1
L28	2,247,515	0	2	None
L8	129,600	0	Insufficient	None
PROM20NX	114,970	0	Insufficient	None
R42	263,600	0	20	None
R5	338,012	0	16	None
R7	1,353,301	0	4	None
R8	1,774,788	0	3	None
R9	465,386	0	12	None
R95	482,388	0	11	None
S4	4,265,402	1	1	No visual defect-1
TSMC 0.25	77,500	0	Insufficient	None
UMC 0.18	465,461	0	12	None
0.25um	33,507	0	Insufficient	None
<b>Grand Total</b>	<b>12,880,774</b>	<b>2</b>	<b>1</b>	<b>See above</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
S4	4,129	2,064,500	0	0	None
<b>Grand Total</b>	<b>4,129</b>	<b>2,064,500</b>	<b>0</b>	<b>0</b>	<b>None</b>

### 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.

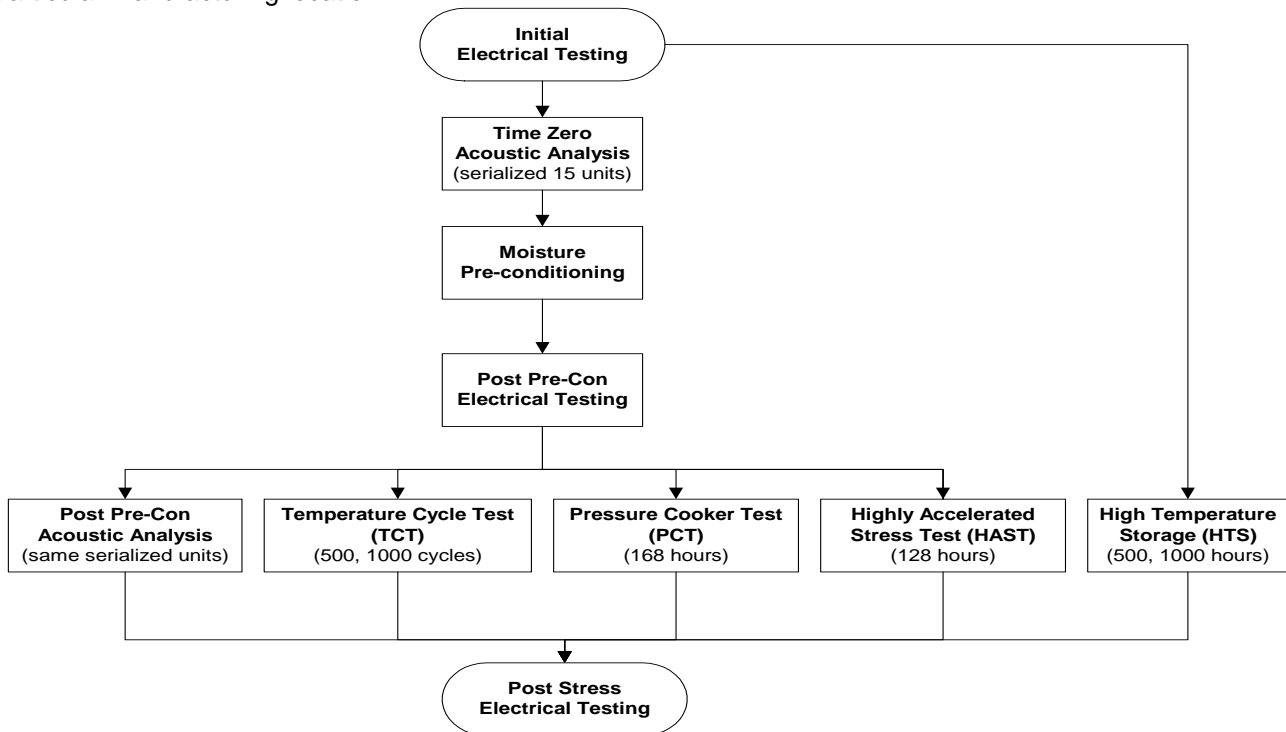


Figure 1. Cypress Package Reliability Stress Flow



### 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)	600	0	0	None
FBGA (0.75-0.8, Pb-Free)	442	0	0	None
FBGA (1.0)	384	0	0	None
FBGA (1.0, Pb-Free)	50	0	0	None
VFBGA (0.75-0.8, 0.3mm)	741	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	2,632	0	0	None
PBGA (1.27)	320	0	0	None
PDIP	78	0	0	None
PDIP (Pb-Free)	531	0	0	None
PLCC	210	0	0	None
PLCC (Pb-Free)	417	0	0	None
PQFP (Pb-Free)	240	0	0	None
QFN (COL, Saw Type, Pb-Free)	79	0	0	None
QFN (Punch Type, Pb-Free)	2,293	0	0	None
QFN (Punch Type, 0.6mm, Pb-Free)	520	0	0	None
QFN (Saw Type, Pb-Free)	234	0	0	None
QFN (Saw Type, 0.6mm, Pb-Free)	551	0	0	None
QSOP (Pb-Free)	228	0	0	None
SNC (Pb-Free)	160	0	0	None
SOIC	535	0	0	None
SOIC (Pb-Free)	2,086	0	0	None
SSOP	80	0	0	None
SSOP (Pb-Free)	1,776	0	0	None
SOIC (J lead)	447	0	0	None
SOIC (J lead, Pb-Free)	411	0	0	None
TQFP	320	0	0	None
TQFP (10x10)	76	0	0	None
TQFP (Pb-Free)	874	0	0	None
TQFP (Thermal)	240	0	0	None
TQFP (Thermal, Pb-Free)	130	0	0	None
TSOP (Pb-Free)	583	0	0	None
TSOP I (Pb-Free)	420	0	0	None
TSOP II	240	0	0	None
TSOP II (Pb-Free)	500	0	0	None
EXPOSED TSOP (Pb-free)	80	0	0	None
RTSOP	80	0	0	None
RTSOP (Pb-Free)	80	0	0	None
TSSOP	398	0	0	None
TSSOP (Pb-Free)	1,403	0	0	None
<b>Grand Total</b>	<b>21,469</b>	<b>0</b>	<b>0.00%</b>	<b>See above</b>

### 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)	323	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-Free)	563	0	0	None
FBGA (1.0)	327	0	0	None
VFBGA (0.75-0.8, 0.3mm)	316	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	978	0	0	None
PBGA (with Heat Spreader)	79	0	0	None
PDIP	80	0	0	None
PDIP (Pb-Free)	573	0	0	None
PLCC	160	0	0	None
PLCC (Pb-Free)	157	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-Free)	79	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	454	0	0	None
QFN (Punch Type, Pb-Free)	703	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	308	0	0	None
QFN (Saw Type, Pb-Free)	157	0	0	None
QSOP (Pb-Free)	77	0	0	None
SNC (Pb-Free)	80	0	0	None
SOIC	406	0	0	None
SOIC (Pb-Free)	1,289	0	0	None
SSOP	80	0	0	None
SSOP (Pb-Free)	1,075	7	0.65%	Bond Pad Corrosion-7 (see Note 1)
SOIC (J lead)	423	0	0	None
SOIC (J lead, Pb-Free)	374	0	0	None
TQFP 10mmx10mm	77	0	0	None
TQFP	251	0	0	None
TQFP (Pb-Free)	741	0	0	None
TSOP (Pb-Free)	521	0	0	None
TSOP I (Pb-Free)	323	0	0	None
TSOP II	238	0	0	None
TSOP II (Pb-Free)	638	5	0.78%	Die edge delamination-5 (see Note 2)
RTSOP (Pb-Free)	77	0	0	None
TSSOP	400	0	0	None
TSSOP (Pb-Free)	1,069	0	0	None
<b>Grand Total</b>	<b>13,396</b>	<b>12</b>	<b>0.09%</b>	<b>See above</b>

Notes: 1) Use Temp Humidity Bias Test in lieu of HAST for packages with Tg < 130C.  
 2) CAR 200621012 – Implement Nitride Seal Mask at CMI.



### 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
Windowed CLCC (Pb-Free)	30	0	0	None
FBGA (0.75-0.8, 0.3mm)	1,455	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-Free)	1,650	0	0	None
FBGA (1.0)	2,484	0	0	None
FBGA (1.0, Pb-Free)	789	0	0	None
VFBGA (0.75-0.8, 0.3mm)	1,454	4	0.28%	Topside crack-4 (see Note 1)
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	5,477	3	0.05%	Die crack-3 (see Note 2)
PBGA (1.27)	1,365	0	0	None
PBGA (1.27 Pb-Free)	320	0	0	None
PBGA (Cavity/Heatsink, Pb-Free)	316	0	0	None
PDIP	738	0	0	None
PDIP (Pb-Free)	1,185	0	0	None
PLCC	568	0	0	None
PLCC (Pb-Free)	868	0	0	None
PQFP (Pb-Free)	1,107	0	0	None
QFN (COL, Saw Type, Pb-Free)	453	0	0	None
QFN (Punch Type, Pb-Free)	3,574	0	0	None
QFN (Punch Type, 0.6mm, Pb-Free)	873	0	0	None
QFN (Saw Type, Pb-Free)	1,160	0	0	None
QFN (Saw Type, 0.6mm, Pb-Free)	2,972	0	0	None
QSOP (Pb-Free)	2,972	0	0	None
SNC	50	0	0	None
SNC (Pb-Free)	366	0	0	None
SOIC	882	3	0.34%	Die crack-3 (see Note 3)
SOIC (Pb-Free)	7,204	0	0	None
SSOP	205	0	0	None
SSOP (Pb-Free)	6,424	0	0	None
SOIC (J lead)	1,491	0	0	None
SOIC (J lead, Pb-Free)	3,043	0	0	None
TQFP	659	0	0	None
TQFP (Pb-Free)	3,497	47	1.34%	Cut wedge-47 (see Note 4)
TQFP (Thermal, Pb-Free)	159	0	0	None
TSOP (Pb-Free)	2,032	0	0	None
TSOP I (Pb-Free)	150	0	0	None
TSOP II	1,288	0	0	None
TSOP II	520	0	0	None
TSOP II (Pb-Free)	1,349	0	0	None
RTSOP	80	0	0	None
RTSOP (Pb-Free)	160	0	0	None
TSSOP	1,127	0	0	None
TSSOP (Pb-Free)	3,798	0	0	None
<b>Grand Total</b>	<b>63,891</b>	<b>57</b>	<b>0.09%</b>	<b>See above</b>

- Notes: 1) CAR 200728024 – Control epoxy fillet height.  
 2) CAR 200720005 – Implement use of alignment jig for the Input / Output transfer arm.  
 3) CAR 200736002 – Improve bench board being used for reject validation.  
 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
CLCC	30	0	0	None
FBGA (0.75-0.8, 0.3mm)	883	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-Free)	928	0	0	None
FBGA (1.0)	786	0	0	None
FBGA (1.0, Pb-Free)	80	0	0	None
VFBGA (0.75-0.8, 0.3mm)	967	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	2,242	0	0	None
PBGA (1.27)	400	0	0	None
PDIP	259	0	0	None
PDIP (Pb-Free)	1,159	0	0	None
PLCC	400	0	0	None
PLCC (Pb-Free)	640	0	0	None
PQFP (Pb-Free)	396	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-Free)	160	0	0	None
QFN (Punch Type, Pb-Free)	1,951	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	756	0	0	None
QFN (Saw Type, Pb-Free)	99	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	314	0	0	None
QSOP (Pb-Free)	364	0	0	None
SNC	50	0	0	None
SNC (Pb-Free)	369	0	0	None
SOIC	1,035	0	0	None
SOIC (Pb-Free)	3,357	0	0	None
SSOP	160	0	0	None
SSOP (Pb-Free)	2,452	0	0	None
SOIC (J lead)	871	0	0	None
SOIC (J lead, Pb-Free)	1,441	0	0	None
TQFP	916	0	0	None
TQFP (10x10)	80	0	0	None
TQFP (Pb-Free)	2,748	0	0	None
TSOP (Pb-Free)	1,070	0	0	None
TSOP I (Pb-Free)	606	0	0	None
TSOP II	494	0	0	None
TSOP II (Pb-Free)	1,297	0	0	None
EXPOSED TSOP (Pb-Free)	160	0	0	None
RTSOP	80	0	0	None
RTSOP (Pb-Free)	80	0	0	None
TSSOP	794	0	0	None
TSSOP (Pb-Free)	1,933	0	0	None
<b>Grand Total</b>	<b>32,807</b>	<b>0</b>	<b>0</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.

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

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

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

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

Similarly, for 140°C HAST testing,

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

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

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

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



## 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

### Summary Detail -- EFR Performance Over Time

**From:** 1/1/2007

**To:** 1/6/2008

Technology	Division	EvalNum	TV	MKTG_DEVICE	Temp	Volt	Readout	SS	Rejects	FA	Results
B53	DCD	MR071065	R1	CY7B993V-2AXC	125	4.2	96	300	0		
	DCD	MR072030	R1	CY7B994V-2AXC	125	4.2	96	300	0		
<b>Summary for Technology = B53 (2 records)</b>									<b>600</b>	<b>0</b>	
<b>Sum</b>											
C8	DCD	61603	1	CYWB0124AB-BVXI	125	3.8	96	483	0		
	DCD	61603	3	CYWB0124AB-BVXIES	125	3.8	96	285	0		
	DCD	61603	1(1)	CYWB0124AB-BVXI	125	3.8	96	296	0		
	DCD	61603	1(2)	CYWB0124AB-BVXI	125	3.8	96	24	0		
	DCD	61603	2B	CYWB0124AB-BVXI	125	3.8	96	285	0		
	DCD	61603	2B(2)	CYWB0124AB-BVXI	125	3.8	96	234	0		
	DCD	61603	3(1)	CYWB0124AB-BVXIES	125	3.8	96	193	0		
	DCD	61603	3(2)	CYWB0124AB-BVXIES	125	3.8	96	192	0		
	DCD	61603	3(3)	CYWB0124AB-BVXIES	125	3.8	96	134	0		
	CCD	65105	R4	CY7C68013A-56PVXCT	125	3.8	96	590	0		
	CCD	65105	R4(1)	CY7C68013A-56PVXCT	125	3.8	96	389	0		
	CCD	65105	R4(2)	CY7C68013A-56PVXCT	125	3.8	96	530	0		
	CCD	65105	R5	CY7C68013A-56PVXCT	125	3.8	120	216	0		
	CCD	65105	R5(1)	CY7C68013A-56PVXCT	125	3.8	96	585	0		
	CCD	65105	R5(2)	CY7C68013A-56PVXCT	125	3.8	144	587	0		
	CCD	65105	R5(3)	CY7C68013A-56PVXCT	125	3.8	120	157	0		
	CCD	65105	R6	CY7C68013A-56PVXCT	125	3.8	96	428	0		
	CCD	65105	R6(1)	CY7C68013A-56PVXCT	125	3.8	144	444	0		
	CCD	65105	R6(3)	CY7C68013A-56PVXCT	125	3.8	120	200	0		
	CCD	65201	R1	CY7C68053-56PVC	150	3.8	48	338	0		
	CCD	65201	R2A	CY7C68053-PVXI	150	3.8	48	348	0		
	CCD	65201	R3A	CY7C68053-56PVC	150	3.8	48	340	0		
	CCD	70901	R1	CY7C65630-56LFXC	125	3.8	48	85	0		
	CCD	70901	R1A	CY7C65630-56LFXC	125	3.8	48	290	0		
	CCD	70901	R1B	CY7C65630-56LFXC	125	3.8	48	867	0		
	CCD	70901	R1C	CY7C65630-56LFXC	125	3.8	48	839	0		
	CCD	70901	R1D	CY7C65630-56LFXC	125	3.8	48	875	0		
	CCD	70901	R1E	CY7C65630-56LFXC	125	3.8	48	30	0		
	CCD	70901	R1F	CY7C65630-56LFXC	125	3.8	48	278	0		
	CCD	70901	R1G	CY7C65630-56LFXC	125	3.8	48	190	0		
	CCD	70901	R1H	CY7C65630-56LFXC	125	3.8	48	40	0		
	CCD	70901	R2B	CY7C65630-56LFXC	125	3.8	48	127	0		
	CCD	70901	R2C	CY7C65630-56LFXC	125	3.8	48	869	0		
	CCD	70901	R2D	CY7C65630-56LFXC	125	3.8	48	955	0		
	CCD	70901	R2E	CY7C65630-56LFXC	125	3.8	48	194	0		
	CCD	70901	R2F	CY7C65630-56LFXC	125	3.8	48	153	0		
	CCD	70901	R2G	CY7C65630-56LFXC	125	3.8	48	280	0		
	CCD	70901	R2H	CY7C65630-56LFXC	125	3.8	48	870	0		
	CCD	70901	R3A	CY7C65630-56LFXC	125	3.8	48	862	0		
	CCD	70901	R3B	CY7C65630-56LFXC	125	3.8	48	84	0		
	CCD	70901	R3C	CY7C65630-56LFXC	125	3.8	48	37	0		
	CCD	70901	R3D	CY7C65630-56LFXC	125	3.8	48	375	0		
	CCD	70901	R3E	CY7C65630-56LFXC	125	3.8	48	870	0		

CCD	70901	R3F	CY7C65630-56LFXC	125	3.8	48	161	0
CCD	70901	R3G	CY7C65630-56LFXC	125	3.8	48	870	0
CCD	70901	R3H	CY7C65630-56LFXC	125	3.8	48	105	0
CCD	70901	R3I	CY7C65630-56LFXC	125	3.8	48	161	0
DCD	72103	R2	CY7C68003-24LQXIEST	150	2.07	48	246	0
DCD	72103	R2A	CY7C68003-24LQXI	150	2.07	48	57	0
DCD	72103	R2A(1)	CY7C68003-24LQXI	150	2.07	48	244	0
DCD	72103	R2A(2)	CY7C68003-24LQXI	150	2.07	48	244	0
DCD	72103	R2A(2)	CY7C68003-24LQXI	150	2.07	48	244	0
DCD	72103	R2A(3)	CY7C68003-24LQXI	150	2.07	48	204	0
DCD	72103	R2A(4)	CY7C68003-24LQXI	150	2.07	48	9	0
DCD	72207	R1A	CYWB0124ABX-FDXIT	125	3.8	96	106	0
DCD	72207	R1A(1)	CYWB0124ABX-FDXIT	125	3.8	96	105	0
DCD	72207	R1A(2)	CYWB0124ABX-FDXIT	125	3.8	96	105	0
DCD	72207	R1A(3)	CYWB0124ABX-FDXIT	125	3.8	96	106	0
DCD	72207	R2(3)	CYWB0124ABX-FDXIT	125	3.8	96	106	0
DCD	72207	R2(4)	CYWB0124ABX-FDXIT	125	3.8	96	26	0
DCD	72207	R3	CYWB0124ABX-FDXIT	125	3.8	96	127	0
DCD	72207	R3(2)	CYWB0124ABX-FDXIT	125	3.8	96	129	0
DCD	72207	R3(3)	CYWB0124ABX-FDXIT	125	3.8	96	39	0
CCD	MR071037	R1	CY7C68300B-56PVXC	125	3.8	168	298	0
CCD	MR072034	R1	CY7C68300C-56PVXC	125	3.8	72	300	0
CCD	MR073060	R1	CY7C65630-56LFXC	125	3.8	110	294	0
CCD	MR074065	R1	CY7C68013A-56PVXC	125	3.8	96	300	0

**Summary for Technology = C8 (67 records)**

**Sum** **21,034** **0**

C9	MID	MR063123	R1	CY7C1041DV33-10ZSXI	150	3.77	48	2,654	17	MR063123-1E1	17-Particle Defect and LI Bridging
	MID	MR063126	R1	CY7C1041DV33-10ZSXI	150	3.77	48	2,964	2	MR063126-1E1	2-Particle Defect and LI Bridging
	MID	MR063128	R1	CY7C1041DV33-10ZSXI	150	3.77	48	1,179	2	MR063128-1E1	2-Particle Defect and LI Bridging
	MID	MR064065	R1	CY7C1021DV33	150	3.77	48	2,590	0		
	MID	MR064094	R1	7C1321NC-RZWI	150	3.77	48	2,359	0		
	MID	MR072014	R1	CY7C1041DV33-10ZSXI	150	3.77	48	3303	1	BMJ-251	1-GF (1 Single Bit)
	MID	MR072014	R2	CY7C1041DV33-10ZSXIT	150	3.77	48	4050	2	BMJ-251	2-GF (1 Single Bit, 1 Column)
	MID	MR072014	R3	CY7C1041DV33-10ZSXIT	150	3.77	48	2551	0		
	MID	MR073053	R1	CG6719AM	150	3.77	48	2375	0		
	MID	MR073053	R2	CG6719AM	150	3.77	48	7367	1		1-x8 Row
	MID	MR074064	R1	CY7C1041DV33-10ZSXIT	150	3.77	96	3467	0		
	MID	MR074064	R2	CY7C1041DV33-10ZSXIT	125	3.77	96	3110	1	BMJ-251	1-GF (1 Partial column)
	MID	MR074064	R3	CY7C1041DV33-10ZSXIT	125	3.77	96	3201	0		
	MID	MR081057	R1	CY7C1021DV33-10ZXI	150	3.77	48	4006	0		
	MID	MR081057	R2	CY7C1021DV33-10ZXI	150	3.77	48	4013	0		
	MID	MR081057	R3	CY7C1021DV33-10ZXI	150	3.77	48	3876	0		
	MID	MR081057	R4	CY7C1021DV33-10ZXI	150	3.77	48	4039	1	TUZ-134	1-Leakage
	MID	MR081057	R5	CY7C1021DV33-10ZXI	150	3.77	48	4016	0		
	MID	MR081057	R6	CY7C1021DV33-10ZXI	150	3.77	48	4012	0		

**Summary for Technology = C9 (19 records)**

**Sum** **65,132** **27**

**Summary for Technology = CMOS2AN (0 record)**

**Sum** **0** **0**

L28	DCD	MR072031	R1	CY229FZX	150	5.75	48	300	0		
-----	-----	----------	----	----------	-----	------	----	-----	---	--	--

**Summary for Technology = L28 (1 record)**

**Sum** **300** **0**

L8	CCD	64202	R1	CY2544CES	150	2.07	48	540	0		
	CCD	64202	R1A	CY2544CES	150	2.07	48	540	0		
	DCD	72401	R2	CY2546C	150	2.07	48	539	0		
	DCD	72401	R2(1)	CY2546C	150	2.07	48	539	0		
	DCD	72401	R2A	CY2544C	150	3.8	48	404	0		
	DCD	72401	R2A(1)	CY2544C	150	3.8	48	404	0		
	DCD	72401	R2A(2)	CY2544C	150	3.8	48	295	0		



Summary for Technology = L8 (7 records)

Sum 3,261 0

Summary for Technology = PROM20NX (0 record)

Sum 0 0

Summary for Technology = PROMOS S12 (0 record)

Sum 0 0

R42	DCD	MR071059	R1	CY2212ZXC-2	150	3.8	60	299	0
	DCD	MR071060	R1	CY2212ZXC-2	150	3.8	60	299	0

Summary for Technology = R42 (2 records)

Sum 598 0

R5	MID	MR072023	R1	CY7C109B-15VXC	150	3.8	48	332	0
	CCD	MR072039	R1	CY62128BLL-70SXE	150	5.75	24	200	0
	MID	MR072040	R1	CY62128BLL-70ZXE	150	5.75	24	158	0

Summary for Technology = R5 (3 records)

Sum 690 0

R7	MID	64901	R1	CY7C1020CV26	150	2.3	24	2,871	0
	MID	64901	R1	CY7C1020CV26	150	2.3	48	2,870	0
	MID	64901	R1A	CY7C1020CV26	150	2.3	24	3,155	0
	MID	64901	R1A	CY7C1020CV26	150	2.3	48	3,151	0
	MID	64901	R1B	CY7C1020CV26	150	2.3	24	2,920	0
	MID	64901	R1B	CY7C1020CV26	150	2.3	48	2,898	0
	MID	64901	R2	CY7C1020CV26	150	2.3	24	3,246	0
	MID	64901	R2	CY7C1020CV26	150	2.3	48	3,224	0
	MID	64901	R2A	CY7C1020CV26	150	2.3	24	3,519	0
	MID	64901	R2A	CY7C1020CV26	150	2.3	48	3,473	0
	MID	64901	R2B	CY7C1020CV26	150	2.3	24	3,550	0
	MID	64901	R2B	CY7C1020CV26	150	2.3	48	3,549	0
	MID	MR071011	R1	CY7C1021CV33-15VXC	150	2.3	60	300	0
	MID	MR071012	R1	CY7C1021CV33-15VXC	150	2.3	60	300	0
	CCD	MR071013	R1	CY8C27443-24PVXI	125	5.5	120	299	0
	MID	MR071014	R1	CY7C1041CV33-15VXC	150	2.3	60	299	0
	MID	MR071074	R1	CY7C1021CV33-10ZXI	150	2.75	24	187	0
	MID	MR071074	R2	CY7C1021CV33-10ZXI	150	2.75	24	179	0
	MID	MR071074	R3	CY7C1021CV33-10ZXI	150	2.75	24	166	0
	MID	MR071074	R4	CY7C1021CV33-10ZXI	150	2.75	24	179	0
	MID	MR071074	R5	CY7C1021CV33-10ZXI	150	2.75	24	104	0
	MID	MR071074	R6	CY7C1021CV33-10ZXI	150	2.75	24	127	0
	MID	MR071074	R7	CY7C1021CV33-10ZXI	150	2.75	24	50	0
	MID	MR071074	R8	CY7C1021CV33-10ZXI	150	2.75	24	27	0
	MID	MR071074	R9	CY7C1021CV33-10ZXI	150	2.75	24	22	0

Summary for Technology = R7 (25 records)

Sum 40,665 0

R8	MID	63901	R1	CY62167DV30LL	125	2.4	96	1,540	1	063901-1E1	1-SAC distance <100A
	MID	63901	R2	CY62167DV30LL	125	2.4	96	961	0		
	MID	63901	R2A	CY62167DV30LL	125	2.4	96	252	0		
	MID	63901	R3	CY62167DV30LL	125	2.4	96	996	0		
	MID	63901	R3	CY62167DV30LL	125	2.4	96	996	0		
	MID	63901	R3(1)	CY62167DV30LL	125	2.4	96	811	1	063901-3AE1	1-Particle Defect
	MID	70903	R1A	CY62167DV30LL	125	2.4	96	764	0		
	MID	70903	R1B	CY62167DV30LL	125	2.75	96	936	0		
	MID	70903	R1C	CY62167DV30LL	125	2.4	96	969	0		
	MID	70903	R2A	CY62167DV30LL	125	2.4	96	2,310	0		
	MID	70903	R3	CY62167DV30LL	125	2.4	96	668	0		
	MID	71203	R1	CY62167DV30	125	2.4	96	731	0		
	MID	71902	R2	CY62157DV30LL-70BVXI	125	2.4	96	1,009	0		
	MID	71902	R3	CY62157DV30LL-70BVXI	125	2.4	96	500	0		
	MID	72302	R4	CY62157DV30LL-70BVXI	125	2.4	96	1,504	0		
	MID	72302	R5	CY62157DV30LL-70BVXI	125	2.4	96	1,009	0		
	MID	MR071019	R1	CY62146DV30LL-70ZSXI	125	2.4	96	261	0		
	MID	MR071020	R1	CY62146DV30LL-70ZSXI	125	2.4	108	299	0		

	MID	MR072012	R1	CY62146DV30LL-70ZSXI	125	2.4	96	357	0		
	MID	MR072013	R1	CY62146DV30LL-70ZSXI	125	2.4	96	359	0		
	MID	MR072036	R1	CY62147DV30LL-55ZSXE	125	5.5	96	300	0		
	MID	MR073037	R1	CY62167DV30LL-55BVI	125	2.4	120	299	0		
	MID	73303	R1	CY62167DV30LL	125	2.4	96	3168	0		
	MID	MR074063	R1	CY62167DV30LL-70BVIT	125	2.4	96	299	0		
<b>Summary for Technology = R8 (24 records)</b>											
	<b>Sum</b>							<b>21,298</b>	<b>2</b>		
R9	MID	71211	R3	CY7C1512V18	125	2.25	96	884	0		
	MID	71211	R4	CY7C1512V18	125	2.25	96	492	0		
	MID	72501	R4	CY7C1565AC	125	2.25	96	1,681	1	072501-4E1	1-No Visual Defect
	MID	72501	R5	CY7C1565AC	125	2.25	48	1,499	0		
	MID	72501	R5	CY7C1565AC	125	2.25	48	1,499	0		
	MID	72501	R6	CY7C1520	125	2.25	48	550	0		
	MID	72501	R6	CY7C1520	125	2.25	48	550	0		
	MID	MR063094	R1	CY7C1354CV25-166AXC	150	2.88	48	3,475	0		
	MID	MR063094	R1	CY7C1354CV25-166AXC	150	2.88	48	3,475	0		
	MID	MR064093	R1	CY7C13830	150	2.25	48	4,968	0		
	MID	71209	R1	CY7C1370D	150	2.25	96	1,703	0		
	MID	71209	R2	CY7C1370D	150	2.25	48	2,574	0		
	MID	71211	R1	CY7C1370	150	2.25	48	2,160	3	071211-1E1	3-No Visual Defect
	MID	71211	R2	CY7C1370	150	2.25	48	2,126	2	071211-1E1	2- Top Metal Damage
	MID	72106	R1A	CY7C1370	150	2.7	48	3,303	0		
	MID	73206	R1	CY7C1360C-166AXCT	150	2.7	12	4,947	0		
	MID	73206	R1	CY7C1360C-166AXCT	150	2.7	24	4,926	0		
	MID	73206	R1	CY7C1360C-166AXCT	150	2.7	32	4,923	0		
	MID	73206	R1	CY7C1360C-166AXCT	150	2.7	48	4,907	0		
	MID	73206	R2	CY7C1360C-166AXCT	150	2.7	12	3,841	0		
	MID	73206	R2	CY7C1360C-166AXCT	150	2.7	24	3,834	0		
	MID	73206	R2	CY7C1360C-166AXCT	150	2.7	32	3,827	0		
	MID	73206	R2	CY7C1360C-166AXCT	150	2.7	48	3,814	0		
	MID	73206	R3	CY7C1360C-166AXCT	150	2.7	12	4,973	0		
	MID	73206	R3	CY7C1360C-166AXCT	150	2.7	24	4,961	0		
	MID	73206	R3	CY7C1360C-166AXCT	150	2.7	32	4,932	0		
	MID	73206	R3	CY7C1360C-166AXCT	150	2.7	48	4,892	0		
	MPD	MR072037	R1	CY7C1360C-166AXCT	150	2.7	12	4,947	0		
	MPD	MR072037	R1	CY7C1360C-166AXCT	150	2.7	24	4,929	0		
	MPD	MR072037	R1	CY7C1360C-166AXCT	150	2.7	36	4,923	0		
	MPD	MR072037	R1	CY7C1360C-166AXCT	150	2.7	48	4,907	0		
	MPD	MR072037	R2	CY7C1360C-166AXCT	150	2.7	12	3,841	0		
	MPD	MR072037	R2	CY7C1360C-166AXCT	150	2.7	24	3,834	0		
	MPD	MR072037	R2	CY7C1360C-166AXCT	150	2.7	36	3,827	0		
	MPD	MR072037	R2	CY7C1360C-166AXCT	150	2.7	48	3,814	0		
	MPD	MR072037	R3	CY7C1360C-166AXCT	150	2.7	12	4,973	0		
	MPD	MR072037	R3	CY7C1360C-166AXCT	150	2.7	24	4,961	0		
	MPD	MR072037	R3	CY7C1360C-166AXCT	150	2.7	36	4,932	0		
	MPD	MR072037	R3	CY7C1360C-166AXCT	150	2.7	48	4,892	0		
	MID	71001	R1	CY7C1471BV25	150	2.2	48	1,391	0		
	MID	MR063094	R1	CY7C1354CV25-166AXC	150	2.88	48	3,475	0		
	MID	MR074038	R2	7C1370EC-RAZCB	150	2.7	36	3,290	0		
	MID	MR074038	R2	7C1370EC-RAZCB	150	2.7	96	3,281	0		
	MID	MR074038	R2	7C1370EC-RAZCB	150	2.7	12	3,297	0		
	MID	MR074038	R2	7C1370EC-RAZCB	150	2.7	24	3,295	0		
	MID	MR074038	R2	7C1370EC-RAZCB	150	2.7	48	3,286	0		
	MID	MR074038	R3	7C1370EC-RAZCB	150	0	12	3,255	0		
	MID	MR074038	R3	7C1370EC-RAZCB	150	0	36	3,245	0		
	MID	MR074038	R3	7C1370EC-RAZCB	150	0	24	3,251	0		
	MID	MR074038	R3	7C1370EC-RAZCB	150	0	48	3,242	0		
	MID	MR074038	R3	7C1370EC-RAZCB	150	0	96	3,237	0		
	MID	MR074070	R1	CY7C1347G-133AXC	150	2.25	48	300	0		



Summary for Technology = R9 (52 records)

Sum								<b>178,341</b>	<b>6</b>
R95	MID	54911	R2B	CY62157ELL	150	1.85	48	1,030	0
	MID	61805	R2	CY62126EV30LL-45ZSXI	125	1.85	48	3,928	0
	MID	61805	R2	CY62126EV30LL-45ZSXI	125	1.85	48	3,928	0
	MID	61805	R2A	CY62126EV30LL-45ZSXI	125	1.85	48	3,811	0
	MID	61805	R2B	CY62126EV30LL-45ZSXI	125	1.85	48	2,901	0
	MID	61805	R2C	CY62126EV30LL-45ZSXI	125	1.85	48	1,002	0
	MID	61806	R4	CY62147EV30LL	125	1.85	48	2,619	0
	MID	61806	R4A	CY62147EV30LL	125	1.85	48	2,644	0
	MID	61806	R4B	CY62147EV30LL	125	1.85	48	2,565	0
	MID	61806	R4C	CY62147EV30LL	125	1.85	48	2,520	0
	MID	71103	R2	CY62157ELL	125	5.5	48	1,410	0
	MID	71103	R2A	CY62157ELL	125	1.85	48	1,497	0
	MID	71103	R2B	CY62157ELL	125	1.85	48	1,535	0
	MID	71103	R3	CY62157ELL	125	1.85	48	1,427	0
	MID	71103	R3A	CY62157ELL	125	1.85	48	1,469	0
	MID	71103	R3B	CY62157ELL	125	1.85	48	1,386	0
	MID	71103	R4	CY62157ELL	125	1.85	48	1,490	0
	MID	71103	R4A	CY62157ELL	125	1.85	48	1,400	0
	MID	71103	R4B	CY62157ELL	125	1.85	48	1,444	0
	MID	71302	R1	CY62167EV30	125	1.85	96	1,909	0
	MID	71302	R2	CY62167EV30	125	1.85	96	1,833	0
	MID	71403	R1	CY62167EV18LL	125	2.2	96	1,546	0
	MID	71403	R2	CY62167EV18LL	125	2.2	96	1,599	0
	MID	71403	R3	CY62167EV18LL	125	2.2	96	2,409	0
	MID	72002	R1	CY62137FV30LL	125	1.85	48	3,742	0
	MID	72002	R2	CY62137FV30LL	125	1.85	48	3,792	0
	MID	72002	R3	CY62137FV30LL	125	1.85	48	3,635	0
	MPD	72905	R1	CY62167EV30LL-45BVXI	125	1.85	96	1,970	0
	MPD	72905	R2	CY62167EV30LL-45BVXI	125	1.85	96	1,987	0
	MPD	72905	R3	CY62167EV30LL-45BVXI	125	1.85	96	2,215	0
	MID	73101	R1A	CY62146EV30LL-45ZSXI	125	1.35	96	1,340	0
	MID	73101	R1B	CY62146EV30LL-45ZSXI	125	1.35	96	1,316	0
	MID	73101	R1C	CY62146EV30LL-45ZSXI	125	1.35	96	1,366	1
	MID	73101	R2A	CY62146EV30LL-45ZSXI	125	1.35	96	965	0
	MID	73101	R2B	CY62146EV30LL-45ZSXI	125	1.35	96	966	0
	MID	73101	R2C	CY62146EV30LL-45ZSXI	125	1.35	96	967	0
	MID	73101	R3A	CY62146EV30LL-45ZSXI	125	1.35	96	1,271	0
	MID	73101	R3B	CY62146EV30LL-45ZSXI	125	1.35	96	1,180	0
	MID	73101	R3C	CY62146EV30LL-45ZSXI	125	1.35	96	1,158	0
	MID	MR071078	R1	CY62157EV30LL-45ZSXI	125	1.85	48	1,490	0
	MID	MR071078	R2	CY62157EV30LL-45ZSXI	125	1.85	48	1,409	0
	MID	MR071078	R3	CY62157EV30LL-45ZSXI	125	1.85	48	1,444	0
	MID	MR071079	R1	CY62157EV30LL-45ZSXI	125	1.85	48	1,410	0
	MID	MR071079	R2	CY62157EV30LL-45ZSXI	125	1.85	48	1,497	0
	MID	MR071079	R3	CY62157EV30LL-45ZSXI	125	1.85	48	1,535	0
	MID	MR071080	R1	CY62157EV30LL-45ZSXI	125	1.85	48	1,427	0
	MID	MR071080	R2	CY62157EV30LL-45ZSXI	125	1.85	48	1,469	0
	MID	MR071080	R3	CY62157EV30LL-45ZSXI	125	1.85	48	1,386	0
	MID	MR074009	R1	CS6673AT	125	1.85	96	80	0
	MID	MR074009	R2	CY62146EV30LL-45ZSXI	125	1.85	96	270	0

073101-1CE1 1-Particle Defect

Summary for Technology = R95 (50 records)

Sum								<b>90,589</b>	<b>1</b>
-----	--	--	--	--	--	--	--	---------------	----------

Summary for Technology = S12 (0 record)

Sum								<b>0</b>	<b>0</b>
-----	--	--	--	--	--	--	--	----------	----------

S4	CCD	70301	R1C	CY8C21534-24PVXI	125	5.5	96	400	0
	CCD	63003	R6	CY8C24423A-24PVXI	125	5.5	96	998	0
	CCD	63003	R6(1)	CY8C24423A-24PVXI	125	5.5	96	800	0
	CCD	63003	R7	CY8C24423A-24PVXI	125	5.5	96	1,997	0

CCD	63003	R7(1)	CY8C24423A-24PVXI	125	5.5	96	500	0	
CCD	63003	R7(2)	CY8C24423A-24PVXI	125	5.5	96	600	0	
CCD	63003	R7(3)	CY8C24423A-24PVXI	125	5.5	96	900	0	
CCD	65001	R1	CY7C63813-PXC	125	5.5	96	789	0	
CCD	65001	R1A	CY7C63813-PXC	125	5.75	96	403	0	
CCD	70301	R1A	CY8C21534-24PVXI	125	5.5	96	400	0	
CCD	70301	R1B	CY8C21534-24PVXI	125	5.5	96	298	0	
CCD	70501	R1	CS6632AF	125	5.75	96	399	0	
CCD	71502	R7	CY0NS1001-LBXC	125	4.2	72	332	0	
CCD	71502	R7	CY0NS1001-LBXC	40	4.2	168	989	0	
CCD	71502	R8	CY0NS1001-LBXC	125	4.2	72	339	0	
CCD	71502	R8	CY0NS1001-LBXC	40	4.2	168	1,009	0	
CCD	71502	R9	CY0NS1001-LBXC	125	4.2	72	337	0	
CCD	71502	R9	CY0NS1001-LBXC	40	4.2	168	990	0	
CCD	71504	R1A	CY8C21534	125	5.5	96	997	0	
CCD	71504	R1A(1)	CY8C21534	125	5.5	96	37	0	
CCD	72206	R1	CY0NS1001-LBXC	125	4.2	72	955	0	
CCD	MR064098	R1	CY8C21234-24SXC	125	5.5	96	550	0	
CCD	MR064098	R1	CY8C21234-24SXC	125	5.5	120	545	0	
CCD	MR071018	R1	CP6458BMT	125	5.5	108	300	0	
CCD	MR071025	R1	CY8C21234-24SXI	150	2.25	108	300	0	
CCD	MR071026	R1	CY8C21334-24PVXI	125	5.5	96	300	0	
CCD	MR071030	R1	CY8C21534-24PVXI	125	5.5	168	506	0	
CCD	MR071069	R1	CY8C21234-24SXI	125	5.5	96	504	0	
CCD	MR071077	R1	CY8C21234-24SXI	125	5.5	120	495	0	
CCD	MR072024	R1	8C21534-24PVXI	125	5.5	108	464	0	
CCD	MR072025	R1	CY8C21534-24PVXI	125	5.5	96	496	0	
CCD	MR072045	R1	CY8C21534-24PVXIT	125	5.5	96	486	0	
CCD	MR073026	R1	CY8C21534-24PVXIT	125	5.5	96	289	0	
CCD	MR073045	R1	CY8C24423BC-RASPI	125	5.5	96	377	0	
CCD	MR071015	R1	CY8C24423A-24PVXI	125	5.5	96	300	0	
CCD	MR071028	R1	CY8C24223A-24PVXI	125	5.5	96	300	0	
CCD	71104	R1A	CY8C21223-24PVXIES	125	5.5	96	505	0	
CCD	71104	R1B	CY8C21223-24PVXIES	125	5.5	96	505	0	
CCD	MR073065	R3	CY8C27443-24PVXI	125	5.5	96	1000	0	
CCD	MR073065	R3	CY8C27443-24PVXI	125	5.5	96	1000	0	
CCD	MR073065	R4	CY8C27443-24PVXI	125	5.5	96	1000	0	
CCD	MR073065	R4	CY8C27443-24PVXI	125	5.5	96	1000	0	
CCD	MR074016	R1	CY8C24123A-24SXI	125	5.5	96	320	0	
CCD	MR074067	R1	CY8C21534-24PVXIT	125	5.5	96	300	0	
CCD	MR073065	R6	CY8C27443-24PVXI	125	5.5	96	1000	0	
<b>Summary for Technology = S4 (45 records)</b>									
<b>Sum</b>							<b>27,311</b>	<b>0</b>	
STARM13NMS	DCD	71206	R1	CY7B991V-JZ	125	4.8	96	322	0
	DCD	71206	R1A	CY7B991V-JZ	125	4.8	96	323	0
	DCD	71206	R1B	CY7B991V-JZ	125	4.8	96	323	0
	DCD	71206	R1C	CY7B991V-JZ	125	4.8	96	323	0
	DCD	71206	R2	CY7B991V-JZ	125	4.8	96	323	0
	DCD	71206	R2A	CY7B991V-JZ	125	4.8	96	323	0
	DCD	71206	R2B	CY7B991V-JZ	125	4.8	96	112	0
<b>Summary for Technology = STARM13NMS (7 records)</b>									
<b>Sum</b>							<b>2,049</b>	<b>0</b>	
UMC 0.18	DCD	71603	R3A	CYV15G0101EQ-SXC	125	3.8	96	384	0
	DCD	71603	R3B	CYV15G0101EQ-SXC	125	3.8	96	376	0
	DCD	71603	R3C	CYV15G0101EQ-SXC	125	3.8	96	379	0
<b>Summary for Technology = UMC 0.18 (3 records)</b>									
<b>Sum</b>							<b>1,139</b>	<b>0</b>	



**Summary Detail -- LFR Performance Over Time**

**From:** 1/1/2007  
**To:** 1/6/2008

Technology	Division	EvalNum	TV	Device	Temp	Volt	Readout	SS	Rejects	FA	Results
B53	DCD	MR071065	R1	CY7B993V-2AXC	125	4.2	168	300	0		
	DCD	MR071065	R1	CY7B993V-2AXC	125	4.2	1012	150	0		
	DCD	MR072030	R1	CY7B994V-2AXC	125	4.2	168	300	0		
	DCD	MR072030	R1	CY7B994V-2AXC	125	4.2	1000	297	0		
<b>Summary for Technology = B53 (4 records)</b>											
<b>Sum</b>								<b>1,047</b>	<b>0</b>		
C8	DCD	61603	1	CYWB0124AB-BVXI	125	3.8	168	178	0		
	DCD	61603	1	CYWB0124AB-BVXI	125	3.8	1000	178	0		
	DCD	61603	3	CYWB0124AB-BVXIES	125	3.8	168	77	0		
	DCD	61603	3	CYWB0124AB-BVXIES	125	3.8	1000	77	0		
	DCD	61603	2B	CYWB0124AB-BVXI	125	3.8	168	178	0		
	DCD	61603	2B	CYWB0124AB-BVXI	125	3.8	1000	178	0		
	CCD	65105	R4	CY7C68013A-56PVXCT	125	3.8	180	120	0		
	CCD	65105	R4	CY7C68013A-56PVXCT	125	3.8	1000	120	0		
	CCD	65201	R1	CY7C68053-56PVC	150	3.8	80	182	0		
	CCD	65201	R1	CY7C68053-56PVC	150	3.8	500	182	0		
	CCD	65201	R2A	CY7C68053-PVXI	150	3.8	80	182	0		
	CCD	65201	R2A	CY7C68053-PVXI	150	3.8	500	182	0		
	CCD	65201	R3A	CY7C68053-56PVC	150	3.8	80	180	0		
	CCD	65201	R3A	CY7C68053-56PVC	150	3.8	500	180	0		
	CCD	70901	R1	CY7C65630-56LFXC	125	3.8	1000	84	0		
	CCD	70901	R2D	CY7C65630-56LFXC	125	3.8	1000	84	0		
	CCD	70901	R3B	CY7C65630-56LFXC	125	3.8	1000	83	0		
	DCD	72103	R2	CY7C68003-24LQXIEST	150	2.07	80	185	0		
	CCD	MR071037	R1	CY7C68300B-56PVXC	125	3.8	168	149	0		
	CCD	MR072034	R1	CY7C68300C-56PVXC	125	3.8	168	300	0		
	CCD	MR072034	R1	CY7C68300C-56PVXC	125	3.8	1000	300	0		
	CCD	MR073060	R1	CY7C65630-56LFXC	125	3.8	1000	294	0		
	CCD	MR074065	R1	CY7C68013A-56PVXC	125	3.8	168	300	0		
	CCD	MR074065	R1	CY7C68013A-56PVXC	125	3.8	1000	300	0		
<b>Summary for Technology = C8 (24 records)</b>											
<b>Sum</b>								<b>4,273</b>	<b>0</b>		
C9	MID	64102	R4	CY7C1051DV33-10ZSXES	125	3.77	160	200	0		
	MID	64102	R4	CY7C1051DV33-10ZSXES	125	3.77	1000	198	1	064101-4L2	1-No Visual Defect
<b>Summary for Technology = C9 (2 records)</b>											
<b>Sum</b>								<b>398</b>	<b>1</b>		
L28	DCD	MR072031	R1	CY229FZX	150	3.8	92	300	0		
	DCD	MR072031	R1	CY229FZX	150	3.8	500	300	0		
<b>Summary for Technology = L28 (2 records)</b>											
<b>Sum</b>								<b>600</b>	<b>0</b>		
L8	CCD	64202	R1	CY2544CES	150	2.07	500	120	0		
	DCD	72401	R2	CY2546C	150	2.07	80	120	0		
	DCD	72401	R2	CY2546C	150	2.07	500	120	0		
<b>Summary for Technology = L8 (3 records)</b>											
<b>Sum</b>								<b>360</b>	<b>0</b>		
P26	<b>Summary for Technology = P26 (0 record)</b>										
<b>Sum</b>								<b>0</b>	<b>0</b>		
POWER 165	<b>Summary for Technology = POWER 165 (0 record)</b>										
<b>Sum</b>								<b>0</b>	<b>0</b>		
PROM20NX	MID	MR064070	R1	CYK256K16MCBU-70BVXI	125	3.8	192	299	0		
	MID	MR064070	R1	CYK256K16MCBU-70BVXI	125	3.8	1000	299	0		
<b>Summary for Technology = PROM20NX (2 records)</b>											



<b>Sum</b>								<b>598</b>	<b>0</b>
R42	DCD	MR071059	R1	CY2212ZXC-2	150	3.8	80	295	0
	DCD	MR071059	R1	CY2212ZXC-2	150	3.8	500	294	0
	DCD	MR071060	R1	CY2212ZXC-2	150	3.8	108	150	0
	DCD	MR071060	R1	CY2212ZXC-2	150	3.8	512	150	0

**Summary for Technology = R42 (4 records)**

<b>Sum</b>								<b>889</b>	<b>0</b>
R52	MPD	MR072023	R1	CY7C109B-15VXC	150	3.8	80	332	0
	MPD	MR072023	R1	CY7C109B-15VXC	150	3.8	500	332	0
	CCD	MR072039	R1	CY62128BLL-70SXE	150	5.75	408	199	0
	MID	MR072040	R1	CY62128BLL-70ZXE	150	5.75	420	153	0

**Summary for Technology = R52 (4 records)**

<b>Sum</b>								<b>1,016</b>	<b>0</b>
R7	MID	MR063073	R1	CY7C1020CV33-15ZSXE	150	2.3	408	295	0
	MID	MR071011	R1	CY7C1021CV33-15VXC	150	2.3	80	300	0
	MID	MR071011	R1	CY7C1021CV33-15VXC	150	2.3	512	300	0
	MID	MR071012	R1	CY7C1021CV33-15VXC	150	2.3	80	300	0
	MID	MR071012	R1	CY7C1021CV33-15VXC	150	2.3	512	300	0
	CCD	MR071013	R1	CY8C27443-24PVXI	125	5.5	168	150	0
	CCD	MR071013	R1	CY8C27443-24PVXI	125	5.5	1024	150	0
	MID	MR071014	R1	CY7C1041CV33-15VXC	150	2.3	80	295	0
	MID	MR071014	R1	CY7C1041CV33-15VXC	150	2.3	500	294	0

**Summary for Technology = R7 (9 records)**

<b>Sum</b>								<b>2,384</b>	<b>0</b>
R8	MID	63901	R1	CY62167DV30LL	150	2.4	80	500	0
	MID	63901	R1	CY62167DV30LL	150	2.4	500	500	0
	MID	63901	R2	CY62167DV30LL	150	2.4	80	495	0
	MID	63901	R2	CY62167DV30LL	150	2.4	500	491	0
	MID	63901	R3	CY62167DV30LL	150	2.4	500	150	0
	MID	70203	R1	CY62137DV30LL	150	2.4	500	144	0
	MID	71902	R1	CY62157DV30LL-70BVXI	125	2.4	168	116	0
	MID	71902	R1	CY62157DV30LL-70BVXI	125	2.4	1000	116	0
	MID	71902	R2	CY62157DV30LL-70BVXI	125	2.4	168	118	0
	MID	71902	R2	CY62157DV30LL-70BVXI	125	2.4	1000	118	0
	MID	MR064039	R1	CY62157DV30LL-45ZSXI	125	2.4	1012	299	0
	MID	MR064041	R1	CY62157DV30LL-55BVI	125	1.85	168	296	0
	MID	MR064041	R1	CY62157DV30LL-55BVI	125	1.85	1000	264	0
	MID	MR071019	R1	CY62146DV30LL-70ZSXI	125	2.4	168	261	0
	MID	MR071019	R1	CY62146DV30LL-70ZSXI	125	2.4	1000	261	0
	MID	MR071020	R1	CY62146DV30LL-70ZSXI	125	2.4	168	299	0
	MID	MR071020	R1	CY62146DV30LL-70ZSXI	125	2.4	1000	298	0
	MID	MR072012	R1	CY62146DV30LL-70ZSXI	125	2.4	168	357	0
	MID	MR072012	R1	CY62146DV30LL-70ZSXI	125	2.4	500	357	0
	MID	MR072012	R1	CY62146DV30LL-70ZSXI	125	2.4	1024	305	0
	MID	MR072013	R1	CY62146DV30LL-70ZSXI	125	2.4	168	359	0
	MID	MR072013	R1	CY62146DV30LL-70ZSXI	125	2.4	500	359	0
	MID	MR072013	R1	CY62146DV30LL-70ZSXI	125	2.4	1024	348	0
	MID	MR072036	R1	CY62147DV30L-55ZSXE	125	5.5	168	150	0
	MID	MR072036	R1	CY62147DV30L-55ZSXE	125	5.5	1000	150	0
	MID	MR073037	R1	CY62167DV30LL-55BVI	125	2.4	168	299	0
	MID	MR073037	R1	CY62167DV30LL-55BVI	125	2.4	1000	298	0
	MID	MR074063	R1	CY62167DV30LL-70BVIT	125	2.4	168	299	0

**Summary for Technology = R8 (28 records)**

<b>Sum</b>								<b>8,007</b>	<b>0</b>
R9	MID	71209	R1	CY7C1370D	150	2.25	500	150	0
	MID	71209	R2	CY7C1370D	150	2.25	500	150	0
	MID	71211	R1	CY7C1370	150	2.25	80	60	0
	MID	71211	R1	CY7C1370	150	2.25	500	60	0
	MID	71211	R2	CY7C1370	150	2.25	500	60	0
	MID	71211	R4	CY7C1512V18	125	2.25	168	180	0



	MID	MR073028	R1	CY7C1313BV18-250BZC	125	2.25	168	459	0
	MID	MR073028	R2	CY7C1313BV18-250BZC	125	2.25	168	313	0
	MID	MR073028	R3	CY7C1313BV18-250BZC	125	2.25	168	535	0
	MID	MR074070	R1	CY7C1347G-133AXC	150	2.25	80	300	0
	MID	MR074070	R1	CY7C1347G-133AXC	150	2.25	500	292	0
<b>Summary for Technology = R9 (11 records)</b>									
	<b>Sum</b>							<b>2,559</b>	<b>0</b>
R95	MID	71302	R1	CY62167EV30	150	1.85	80	400	0
	MID	71302	R1	CY62167EV30	150	1.85	500	400	0
	MID	71302	R2	CY62167EV30	150	1.85	80	399	0
	MID	71302	R2	CY62167EV30	150	1.85	500	399	0
	MID	MR074009	R1	CS6673AT	125	1.85	168	270	0
	MID	MR074009	R2	CY62146EV30LL-45ZSXI	125	1.85	168	80	0
<b>Summary for Technology = R95 (6 records)</b>									
	<b>Sum</b>							<b>1,948</b>	<b>0</b>
S4	CCD	63210	R1	CY8C27443-24PVXI	125	5.5	1000	180	0
	CCD	65001	R1	CY7C63813-PXC	125	5.5	168	198	0
	CCD	65001	R1	CY7C63813-PXC	125	5.5	1048	184	0
	CCD	65001	R1A	CY7C63813-PXC	125	5.75	168	198	0
	CCD	70505	R1B	CY8C20334-12PVXIES	125	5.5	168	90	0
	CCD	71104	R1A	CY8C21223-24PVXIES	125	5.5	168	90	0
	CCD	71104	R1B	CY8C21223-24PVXIES	125	5.5	168	90	0
	CCD	71402	R1	CY8C244235A-24PVXIES	125	5.5	168	180	0
	CCD	71502	R7	CY0NS1001-LBXC	40	4.2	336	234	1
	CCD	71502	R7	CY0NS1001-LBXC	40	4.2	650	232	0
	CCD	71502	R8	CY0NS1001-LBXC	125	4.2	180	228	0
	CCD	71502	R8	CY0NS1001-LBXC	125	4.2	300	220	0
	CCD	71502	R8	CY0NS1001-LBXC	40	4.2	336	227	0
	CCD	71502	R8	CY0NS1001-LBXC	40	4.2	650	227	0
	CCD	71502	R9	CY0NS1001-LBXC	40	4.2	336	235	0
	CCD	71502	R9	CY0NS1001-LBXC	40	4.2	650	235	0
	CCD	72402	R1A	CY8C24633-24PVXI	125	5.5	1000	200	0
	CCD	72402	R1B	CY8C24633-24PVXI	125	5.5	1000	199	0
	CCD	72402	R1C	CY8C24633-24PVXI	125	5.5	1000	199	0
	MID	73803	R1B	CY8C20334	125	5.5	1000	200	0
	CCD	MR063129	R1	CY8C21534-24PVXI	150	3.8	1024	518	0
	CCD	MR064019	R1	CY8C21234-24SXI	125	5.5	1012	349	0
	CCD	MR064019	R1A	CY8C21234-24SXI	125	5.5	1000	212	0
	CCD	MR064036	R1	CY8C21334-24PVXI	125	5.5	168	300	0
	CCD	MR064036	R1	CY8C21334-24PVXI	125	5.5	168	300	0
	CCD	MR064036	R1	CY8C21334-24PVXI	125	5.5	1012	300	0
	CCD	MR064037	R1	CY8C21234-24SXI	125	5.5	1012	379	0
	CCD	MR064050	R1	CP6458BM-TSPI	125	5.5	1000	300	0
	CCD	MR064082	R1	CY7C64215-28PVXC	125	5.5	168	386	0
	CCD	MR064082	R1	CY7C64215-28PVXC	125	5.5	1000	385	0
	CCD	MR064098	R1	CY8C21234-24SXC	125	5.5	168	517	0
	CCD	MR064098	R1	CY8C21234-24SXC	125	5.5	1000	517	0
	CCD	MR071015	R1	CY8C24423A-24PVXI	125	5.5	240	150	0
	CCD	MR071015	R1	CY8C24423A-24PVXI	125	5.5	1000	150	0
	CCD	MR071018	R1	CP6458BMT	125	5.5	240	150	0
	CCD	MR071018	R1	CP6458BMT	125	5.5	1024	150	0
	CCD	MR071025	R1	CY8C21234-24SXI	125	5.5	168	300	0
	CCD	MR071025	R1	CY8C21234-24SXI	125	5.5	1000	300	0
	CCD	MR071026	R1	CY8C21334-24PVXI	125	5.5	168	300	0
	CCD	MR071026	R1	CY8C21334-24PVXI	125	5.5	1000	150	0
	CCD	MR071028	R1	CY8C24223A-24PVXI	125	5.5	168	300	0
	CCD	MR071028	R1	CY8C24223A-24PVXI	125	5.5	1048	150	0
	CCD	MR071030	R1	CY8C21534-24PVXI	125	5.5	168	506	0
	CCD	MR071030	R1	CY8C21534-24PVXI	125	5.5	1000	506	0
	CCD	MR071069	R1	CY8C21234-24SXI	125	5.5	168	504	0

071502-2L1 1- No Visual Defect

CCD	MR071069	R1	CY8C21234-24SXI	125	5.5	1000	502	0	
CCD	MR071077	R1	CY8C21234-24SXI	125	5.5	1000	495	0	
CCD	MR072024	R1	8C21534-24PVXI	125	5.5	168	464	0	
CCD	MR072024	R1	8C21534-24PVXI	125	5.5	1000	462	0	
CCD	MR072025	R1	CY8C21534-24PVXI	125	5.5	168	496	0	
CCD	MR072025	R1	CY8C21534-24PVXI	125	5.5	1000	496	0	
CCD	MR072045	R1	CY8C21534-24PVXIT	125	5.5	168	486	0	
CCD	MR072045	R1	CY8C21534-24PVXIT	125	5.5	1024	486	0	
CCD	MR073026	R1	CY8C21534-24PVXIT	125	5.5	96	289	0	
CCD	MR073026	R1	CY8C21534-24PVXIT	125	5.5	168	289	0	
CCD	MR073026	R1	CY8C21534-24PVXIT	125	5.5	1000	289	0	
CCD	MR073045	R1	CY8C24423BC-RASPI	125	5.5	96	377	0	
CCD	MR073045	R1	CY8C24423BC-RASPI	125	5.5	168	375	0	
CCD	MR073045	R1	CY8C24423BC-RASPI	125	5.5	1000	375	0	
CCD	MR073065	R1	CY8C24223A-24PVXIT	125	5.5	168	998	0	
CCD	MR073065	R1	CY8C24223A-24PVXIT	125	5.5	1000	300	0	
CCD	MR073065	R2	CY8C24423A-24PVXI	125	5.5	192	299	0	
CCD	MR073065	R2	CY8C24423A-24PVXI	125	5.5	1000	299	0	
CCD	MR074016	R1	CY8C24123A-24SXI	125	5.5	192	320	0	
CCD	MR074016	R1	CY8C24123A-24SXI	125	5.5	1000	317	0	
<b>Summary for Technology = S4 (65 records)</b>									
<b>Sum</b>							<b>20,339</b>	<b>1</b>	
STARM									
<b>Summary for Technology = STARM (1 record)</b>									
<b>Sum</b>							<b>0</b>	<b>0</b>	
TSMC025	MID	70302	R1	CYL1SM0300AA-QDC	150	2.9	80	50	0
	MID	70302	R1	CYL1SM0300AA-QDC	150	2.9	500	50	0
	MID	70302	R2	CYL1SM0300AA-QDC	150	2.9	500	48	0
	MID	70302	R3	CYL1SM0300AA-QDC	150	2.9	80	50	0
	MID	70302	R3	CYL1SM0300AA-QDC	150	2.9	500	49	0
<b>Sum</b>							<b>247</b>	<b>0</b>	
<b>Summary for Technology = TSMC025 (5 records)</b>									
UMC 0.18	DCD	70504	R1A	CYV15G0102EQ-SXCES	125	3.8	168	360	0
	DCD	70504	R1A	CYV15G0102EQ-SXCES	125	3.8	500	360	0
	DCD	70504	R1B	CYV15G0102EQ-SXCES	125	3.8	192	369	0
	DCD	71603	R3A	CYV15G0101EQ-SXC	125	3.8	168	380	0
	DCD	71603	R3A	CYV15G0101EQ-SXC	125	3.8	620	380	0
	DCD	71603	R3A	CYV15G0101EQ-SXC	125	3.8	1024	380	0
	DCD	71603	R3B	CYV15G0101EQ-SXC	125	3.8	168	376	0
	DCD	71603	R3C	CYV15G0101EQ-SXC	125	3.8	168	379	0
<b>Summary for Technology = UMC 0.18 (8 records)</b>									
<b>Sum</b>							<b>2,984</b>	<b>0</b>	
0.25um	MID	70201	R1	R3M1AL	125	2.875	168	78	0
	MID	70201	R1	R3M1AL	125	2.875	1000	78	0
	MID	70201	R2	R3M1AL	125	2.875	168	76	0
<b>Summary for Technology = 0.25um (3 records)</b>									
<b>Sum</b>							<b>232</b>	<b>0</b>	



**Summary Detail -- DRet Performance Over Time**

**From:** 1/1/12007  
**To:** 1/6/2008

Technology	Division	EvalNum	TV	Device	Temp	Readout	Duration	SS	Rejects	FA	Results
S4	CCD	63210	R1	CY8C27443-24PVXI	150	1000	500	77	0		
	CCD	65001	R1	CY7C63813-PXC	150	500	500	77	0		
	CCD	65001	R1	CY7C63813-PXC	150	1000	500	77	0		
	CCD	70501	R1	CS6632AF	150	500	500	92	0		
	CCD	71104	R1A	8C212235AK-MSZI	150	500	500	40	0		
	CCD	71104	R1A	CY8C21223-24PVXIES	150	1000	500	40	0		
	CCD	71104	R1B	8C212235AK-MSZI	150	500	500	40	0		
	CCD	71104	R1B	CY8C21223-24PVXIES	150	1000	500	40	0		
	CCD	71801	R1	7C841400BK-RAZZI	150	500	500	80	0		
	CCD	72402	R1A	CY8C24633-24PVXI	150	500	500	37	0		
	CCD	72402	R1A	CY8C24633-24PVXI	150	1000	500	37	0		
	CCD	72402	R1A	8C24633AK	150	1000	500	37	0		
	CCD	72402	R1B	CY8C24633-24PVXI	150	500	500	27	0		
	CCD	72402	R1B	CY8C24633-24PVXI	150	1000	500	27	0		
	CCD	72402	R1B	8C24633AK	150	1000	500	27	0		
	CCD	72402	R1C	CY8C24633-24PVXI	150	500	500	26	0		
	CCD	72402	R1C	CY8C24633-24PVXI	150	500	500	26	0		
	CCD	72402	R1C	8C24633AK	150	1000	500	26	0		
	CCD	72602	R1A	8C214534AC-RASPI	150	500	500	30	0		
	CCD	72602	R1A	CY8C21534-24PVXI	150	1000	500	30	0		
	CCD	72602	R1B	8C21534AC-RASPI	150	500	500	19	0		
	CCD	72602	R1B	CY8C21534-24PVXI	150	1000	500	19	0		
	CCD	72602	R1C	8C21534AC-RASPI	150	500	500	30	0		
	CCD	72602	R1C	CY8C21534-24PVXI	150	1000	500	30	0		
	CCD	73302	R1A	8C29466AT-MSPI	150	500	500	30	0		
	CCD	73302	R1B	8C29466AT-MSPI	150	500	500	25	0		
	CCD	73302	R1C	8C29466AT-MSPI	150	500	500	30	0		
	CCD	73401	R1A	CY8C21534	150	500	500	30	0		
	CCD	73401	R1B	CY8V21534	150	500	500	30	0		
	CCD	73401	R1C	CY8C21534	150	500	500	30	0		
	CCD	73706	R1A	8C24494AC-TSPI	150	500	500	43	0		
	CCD	73706	R1B	8C24494AC-TSPI	150	500	500	42	0		
	CCD	MR064030	R1	CY8C24944-24LFXI	150	1000	500	157	0		
	CCD	MR064080	R1	CY8C24994-24LFXI	150	500	500	50	0		
	CCD	MR064080	R1	CY8C24994-24LFXI	150	1000	500	50	0		
	CCD	MR064082	R1	CY7C64215-28PVXC	150	500	500	100	0		
	CCD	MR064082	R1	CY7C64215-28PVXC	150	1000	500	100	0		
	CCD	MR071029	R1	CY8C21534-24PVXI	150	500	500	160	0		

CCD	MR071029	R1	CY8C21534-24PVXI	150	1000	500	160	0
CCD	MR071076	R1	CY8C24994-24LFXI	150	500	500	154	0
CCD	MR072003	R1	CY8C21534-24PVXI	150	500	500	154	0
CCD	MR072003	R1	CY8C21534-24PVXI	150	1000	500	154	0
CCD	MR072022	R1	CY8C21534-24PVXI	150	500	500	158	0
CCD	MR072022	R1	CY8C21534-24PVXI	150	1000	500	158	0
CCD	MR072042	R1	CY7C60323-PVXC	150	500	500	158	0
CCD	MR072045	R1	CY8C21534-24PVXIT	150	500	500	154	0
CCD	MR072045	R1	CY8C21534-24PVXIT	150	1000	500	154	0
CCD	MR073006	R1	CY8C20434-12LFXI	150	500	500	122	0
CCD	MR073006	R1	8C20434AC-LLKI	150	1000	500	107	0
CCD	MR073021	R1	CY8C27443-24PVXI	150	500	500	79	0
CCD	MR073021	R1	8C27443BC-RASPI	150	1000	500	79	0
CCD	MR073026	R1	CY8C21534-24PVXIT	150	500	500	76	0
CCD	MR073026	R1	CY8C21534-24PVXIT	150	1000	500	76	0
CCD	MR073029	R1	CY8C24223BC-24PVXIT	150	500	500	80	0
CCD	MR073029	R1	CY8C24223BC-24PVXIT	150	1000	500	80	0
CCD	MR073045	R1	CY8C24423BC-RASPI	150	500	500	79	0
CCD	MR073045	R1	CY8C24423BC-RASPI	150	1000	500	79	0
<b>Summary for Technology = S4 (57 records)</b>								
<b>Sum</b>							<b>4,129</b>	<b>0</b>

## Summary Detail -- PCT Performance Over Time

From: 1/1/2007

To: 1/6/2008

Bldkit	Assy Site	EvalNum	TV	Device	Temp	Readout	SS	Rejects	FA	Results
<b>FBGA (0.75-0.8, 0.3mm)</b>										
BA48BQAALE	RA-CML	MR071064	R1	CY62137CVSL-70BAI	121	168	80	0		
BA48BQAALE	RA-CML	MR073051	R1	CY62137CVSL-70BAIT	121	168	80	0		
BA48BQAALE	RA-CML	MR074061	R1	CY62137CVSL-70BAIT	121	168	79	0		
BA48CRALE	T-TAIWAN	MR064017	R1	CY62137CVSL-70BAIT	121	168	46	0		
BA48CRALE	T-TAIWAN	MR071052	R1	CY62137CVSL-70BAI	121	168	79	0		
BA48CRALE	OSE-T	MR074046	R1	CY62137CVSL-70BAIT	121	168	80	0		
BA48CRALE	T-TAIWAN	MR074068	R1	CY62137CVSL-70BAIT	121	168	80	0		
BA60ABAAL	AT - Indonesia	73603	R1	CY7C1069A	121	168	76	0		
<b>Summary for Package Family : FBGA (0.75-0.8, 0.3mm) (8 records)</b>							<b>600</b>	<b>0</b>		
<b>Sum</b>										
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>										
BK48ABAALL	AIT-INDONESIA	73503	R1	CY62137CVSL-70BAXI	121	168	78	0		
BK48BQALL	RA-CML	MR073046	R1	CY62137CVSL-70BAXIT	121	168	80	0		
BK48BWALL	G-TAIWAN	MR072032	R1	CY7C1021CV33-10BAXI	121	168	80	0		
BK48BWALL	G-TAIWAN	MR073041	R1	CY7C1021CV33-10BAXI	121	168	80	0		
BK48CDALL	G-TAIWAN	73205	R1	CY7C1041CV33-20BAI	121	96	45	0		
BK48CPBGL	G-TAIWAN	MR074056	R1	CY7C67200-48BAXIT	121	168	79	0		
<b>Summary for Package Family : FBGA (0.75-0.8, 0.3mm, Pb-Free) (6 records)</b>							<b>442</b>	<b>0</b>		
<b>Sum</b>										
<b>FBGA (1.0)</b>										
BB100EAALE	G-TAIWAN	MR073001	R1	CY7B994V-2BBI	121	168	80	0		
BB165AAAGL	AIT-INDONESIA	71207	R1	CY7C1305BV25	121	168	77	0		
BB172AAGE	G-TAIWAN	NR072027	R1	CY7C057V-15BBC	121	168	50	0		
BB172AAGE	G-TAIWAN	NR072027	R2	CY7C057V-12BBC	121	168	49	0		
BB172AAGE	G-TAIWAN	NR072027	R3	CY7C057V-15BBI	121	168	49	0		
BB256AAAGL	AIT-INDONESIA	72005	R1	CYNSE70130D-125BBC	121	128	79	0		
<b>Summary for Package Family : FBGA (1.0) (6 records)</b>							<b>384</b>	<b>0</b>		
<b>Sum</b>										
<b>FBGA (1.0, Pb-Free)</b>										
BW100CAGL	G-TAIWAN	MR063122	R1	CY7B994V-2BBXC	121	168	50	0		
<b>Summary for Package Family : FBGA (1.0, Pb-Free) (1 record)</b>							<b>50</b>	<b>0</b>		
<b>Sum</b>										
<b>VFBGA (0.75-0.8, 0.3mm)</b>										
BV48AMAAL	G-TAIWAN	MR073035	R1	CY62136CV30LL-55BVI	121	168	80	0		
BV48ATALE	RA-CML	MR071072	R1	CY62157DV30LL-70BVI	121	168	80	0		
BV48BAAAL	G-TAIWAN	MR074003	R1	CG6601AA	121	168	80	0		
BV48BAAL	G-TAIWAN	MR064034	R1	CY62157DV30LL-70BVI	121	168	49	0		
BV48BNALE	G-TAIWAN	63901	R2	CY62167DV30LL	121	168	45	0		
BV48BNALE	G-TAIWAN	63901	R2	CY62167DV30LL	121	288	45	0		
BV48BNALE	G-TAIWAN	63901	R3	CY62167DV30LL	121	168	28	0		
BV48BNALE	G-TAIWAN	63901	R3(1)	CY62167DV30LL	121	168	20	0		
BV48BNALE	G-TAIWAN	64505	R1	CY62167DV30	121	168	44	0		
BV48BNALE	G-TAIWAN	70203	R1A	CY62167DV30LL	121	168	34	0		
BV48BNALE	G-TAIWAN	70203	R2	CY62167DV30LL	121	168	77	0		
BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	121	168	80	0		
BV48RAAL	G-TAIWAN	MR071058	R1	CY7C1011CV33-10BVI	121	168	79	0		
<b>Summary for Package Family : VFBGA (0.75-0.8, 0.3mm) (13 records)</b>							<b>741</b>	<b>0</b>		
<b>Sum</b>										
<b>VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>										
BZ100BAALL	G-TAIWAN	MR073064	R1	CYDM256B16-55BVXI	121	168	77	0		

BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	121	168	80	0
BZ100CGAL	G-TAIWAN	61603	R1	CYWB0124AB-BVXI	121	168	75	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	121	168	79	0
BZ100FAAGL	AIT-INDONESIA	71202	R1	CYWB0124AB-BVXI	121	168	77	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R1	CYWB0124AB-BVXI	121	168	78	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R2	CYWB0124AB-BVXI	121	168	80	0
BZ100FAAGL	AIT-INDONESIA	NR073001	R3	CYWB0124AB-BVXI	121	168	80	0
BZ48ABAAGL	AIT-INDONESIA	65103	R1	CYK256K6C9BW-70BVXI	121	168	50	0
BZ48ABAAGL	AIT-INDONESIA	NR072005	R2	CYK256K16SCBU-70BVXI	121	168	79	0
BZ48ABAAGL	AIT-INDONESIA	NR072005	R3	CYK256K16SCBU	121	168	77	0
BZ48ANAARL	AIT-Indonesia	71902	R1	CY62157DV30LL-70BVXI	121	168	79	0
BZ48ANAARL	AIT-Indonesia	71902	R2	CY62157DV30LL-70BVXI	121	168	79	0
BZ48BBAALL	AIT-INDONESIA	72302	R1	CY62167DV30LL-70BVXI	120	128	74	0
BZ48BKBLE	RA-CML	NR072007	R1	CYK128K16MCBU-70BVXI	121	168	80	0
BZ48CEAALL	G-TAIWAN	MR074055	R1	CY62147EV30LL-45BVXI	121	168	79	0
BZ48CNAALL	G-TAIWAN	70906	R1	CY62167DV30LL	121	168	79	0
BZ48CNAALL	G-TAIWAN	70906	R8	7G62161D	121	168	45	0
BZ48CNAALL	G-TAIWAN	70906	R9	CY62167DV30LL	121	168	45	0
BZ48CNAALL	G-TAIWAN	72903	R2	CY62167DV30LL	121	168	80	0
BZ48CRALL	G-TAIWAN	71302	R1	CY62167EV30	121	168	50	0
BZ48CRALL	G-TAIWAN	71405	R1	CY62167EV30	121	168	50	0
BZ48CRALL	G-TAIWAN	71405	R1	CY62167EV30	121	288	50	0
BZ48CRALL	G-TAIWAN	71405	R3	CY62167EV30	121	168	75	0
BZ56AGAGL	G-TAIWAN	MR064027	R1	CY7C68013A-56BAXC	121	168	50	0
BZ56AGAGL	G-TAIWAN	MR074057	R1	CY7C68013-56BAXC	121	168	80	0
BZ56AVAAAL	AIT-INDONESIA	63803	R2	CY7C68013A-56BAXC	121	168	50	0
BZ56FAALE	G-TAIWAN	65201	R2	CY7C68053-56BAXI	121	168	50	0
BZ56FAALE	G-TAIWAN	MR064025	R1	CY7C68053-56BAXIES	121	168	50	0
BZ56FAALE	G-TAIWAN	MR064025	R1	CY7C68053-56BAXIES	121	336	49	0
BZ56FAALE	G-TAIWAN	MR064025	R1	CY7C68053-56BAXIES	121	168	50	0
BZ56FAALE	G-TAIWAN	MR064049	R1	CY7C68053-56BAXIES	121	288	50	0
BZ56FAALE	G-TAIWAN	MR064049	R1	CY7C68053-56BAXIES	121	500	50	0
BZ56FAALE	G-TAIWAN	MR064049	R2	CY7C68053-56BAXIES	121	288	50	0
BZ56FAALE	G-TAIWAN	MR064049	R2	CY7C68053-56BAXIES	121	500	50	0
BZ56FAALE	G-TAIWAN	MR064049	R3	CY7C68053-56BAXI	121	288	48	0
BZ56FAALE	G-TAIWAN	MR064049	R3	CY7C68053-56BAXI	121	500	48	0
BZ56GABGL	RA-CML	NR072032	R1	7C680510AC-RABZI	121	168	50	0
BZ56IAAAGL	AT-TAIWAN	MR074053	R1	CY7C68053-56BAXIT	121	168	80	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	121	168	80	0
BZ56IAAAGL	AIT-INDONESIA	NR072003	R3	CY7C68053-56BAXI	121	168	50	0

Summary for Package Family : VFBGA (0.75-0.8, 0.3mm, Pb-Free) (41 records)

Sum 2,632 0

**PBGA (1.27)**

BG119ABALE	AT - Indonesia	73702	R1	CY7C1012SV33	121	168	80	0
BG119QALE	G-TAIWAN	MR071066	R1	CY7C1325G-133BGC	121	168	80	0
BG119SALE	G-TAIWAN	MR073002	R1	CY7C1354C-166BGC	121	168	80	0
BG119SALE	G-TAIWAN	MR074032	R1	CY7C1354C-166BGC	121	168	80	0

Summary for Package Family : PBGA (1.27) (4 records)

Sum 320 0

**PBGA (Cavity/Heatsink)**

Summary for Package Family : PBGA (Cavity/Heatsink) (0 record)

Sum 0 0

**PBGA (Pb-Free)**

Summary for Package Family : PBGA (Pb-Free) (0 record)

Sum 0 0

**PDIP**

P2839GAAGB	X-THAILAND	MR071039	R1	CY7C185-25PC	121	168	78	0
------------	------------	----------	----	--------------	-----	-----	----	---

Summary for Package Family : PDIP (1 record)

Sum 78 0

**PDIP (Pb-Free)**

PZ183AXGN	O-INDONESIA	65001	R1	CY7C63813-PXC	121	168	46	0
PZ183AXGN	O-INDONESIA	65001	R2	CY7C63813-PXC	121	168	46	0
PZ183AXGN	O-INDONESIA	65001	R3	CY7C63813-PXC	121	168	45	0
PZ183AXGN	O-INDONESIA	70501	R1	CS6632AF	121	168	77	0
PZ183AXGN	O-IND	MR074015	R1	CS6632AF	121	168	77	0
PZ183DAGN	RA-CML	MR071044	R1	CY7C63723C-PXC	121	168	80	0
PZ183DAGN	RA-CML	MR072027	R1	CY7C63723C-PXC	121	168	80	0
PZ183DAGN	RA-CML	MR073050	R1	CY7C63723C-PXC	121	168	80	0
<b>Summary for Package Family : PDIP (Pb-Free) (8 records)</b>								
<b>Sum</b>							<b>531</b>	<b>0</b>
<b>PLCC</b>								
J32RBGAAGB	X-MMT	MR064023	R1	CY7B991-5JI	121	168	50	0
J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-15JC	121	168	80	0
J32RBGAGB	M-PHIL	MR071007	R1	CY7B991-5JC	121	168	80	0
<b>Summary for Package Family : PLCC (3 records)</b>								
<b>Sum</b>							<b>210</b>	<b>0</b>
<b>PLCC (Pb-Free)</b>								
JZ32RBGAN	M-PHIL	71206	R1	CY7B991V-JZ	121	168	77	0
JZ32RBGAN	M-PHIL	MR064043	R1	CY7B991-5JXC	121	168	50	0
JZ32RBGAN	M-PHIL	MR073043	R1	CY7C4241-15JXC	121	168	80	0
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	121	168	80	0
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	121	168	80	0
JZ52SFGAN	M-PHIL	MR064033	R1	CY7C136-55JXC	121	168	50	0
<b>Summary for Package Family : PLCC (Pb-Free) (6 records)</b>								
<b>Sum</b>							<b>417</b>	<b>0</b>
<b>PQFP</b>								
<b>Summary for Package Family : PQFP (0 record)</b>								
<b>Sum</b>							<b>0</b>	<b>0</b>
<b>PQFP (Pb-Free)</b>								
NZ52DXGAN	G-TAIWAN	MR071073	R1	CY7C136-55NXCT	121	168	80	0
NZ52DXGAN	G-TAIWAN	MR073059	R1	CY7C131-55NXC	121	168	80	0
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	121	168	80	0
<b>Summary for Package Family : PQFP (Pb-Free) (3 records)</b>								
<b>Sum</b>							<b>240</b>	<b>0</b>
<b>QFN (COL, Saw Type, Pb-Free)</b>								
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	121	168	79	0
<b>Summary for Package Family : QFN (COL, Saw Type, Pb-Free) (1 record)</b>								
<b>Sum</b>							<b>79</b>	<b>0</b>
<b>QFN (Punch Type, Pb-Free)</b>								
LY16AGAGL	L-KOREA	71003	R1	CYV15G0101EQ	121	168	79	0
LY16AGAGL	L-KOREA	71003	R1	CYV15G0101EQ	121	288	79	0
LY16AGAGL	L-KOREA	71003	R2	CYV15G0101EQ	121	168	80	0
LY16AGAGL	L-KOREA	71003	R2	CYV15G0101EQ	121	336	80	0
LY24BGAGL	L-KOREA	72401	R2	CY2546C	121	168	80	0
LY32AGAGL	L-KOREA	MR071008	R1	CY8C21434-24LFXI	121	168	80	0
LY32AGAGL	L-KOREA	MR072043	R1B	CY8C21434-24LFXIT	121	168	92	0
LY32AGAGL	L-KOREA	NR072004	R1	CP6631AM	121	168	80	0
LY32AGAGL	L-KOREA	NR072004	R2	CP6621AM	121	168	80	0
LY32AGAGL	L-KOREA	NR072004	R3	CS6624AA	121	168	80	0
LY32BGAGL	RA-CML	64402	R1	CY8C21434-24LFXI	121	168	45	0
LY56AGAGL	L-KOREA	70901	R1	CY7C65630-56LFXC	121	168	85	0
LY56AGAGL	L-KOREA	70901	R2	CY7C65630-56LFXC	121	96	84	0
LY56AGAGL	L-KOREA	70901	R2	CY7C65630-56LFXC	121	168	84	0
LY56AGAGL	L-KOREA	70901	R3	CY7C65630-56LFXC	121	96	85	0
LY56AGAGL	L-KOREA	70901	R3	CY7C65630-56LFXC	121	168	85	0
LY56AGAGL	L-KOREA	MR071035	R1	CY7C65630-56LFXC	121	168	80	0
LY56AGAGL	L-KOREA	MR072019	R1	CY7C62640A-LFXC	121	168	79	0
LY56DGAGL	L-KOREA	MR064098	R2	8C24795AK-LLYI	121	168	90	0
LY56DGAGL	L-KOREA	MR064098	R2	8C24795AK-LLYI	121	288	90	0
LY68AGAGL	L-KOREA	NR064004	R1	8C24995AK-LLYI	121	168	49	0



LY68AGAAGL	L-KOREA	NR064004	R2	CY8C24994-24LFXIT	121	168	50	0	
LY68AGAAGL	L-KOREA	NR064004	R3	8C24994AT-LLYI	121	168	79	0	
LY68AGABGL	L-KOREA	MR071076	R1	CY8C24994-24LFXI	121	168	90	0	
LY68AGABGL	L-KOREA	MR071076	R1	CY8C24994-24LFXI	121	288	90	0	
LY68AGABGL	L-KOREA	MR072043	R1A	CS6656AAT	121	168	58	0	
LY68AGABGL	L-KOREA	MR072044	R1	CS6656AAT	121	168	100	0	
LY72AGAGL	L-KOREA	MR072006	R1	CY28447LFXC	121	168	80	0	
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	121	168	80	0	
<b>Summary for Package Family : QFN (Punch Type, Pb-Free) (29 records)</b>									
<b>Sum</b>								<b>2,293</b>	<b>0</b>
<b>QFN (Punch Type, 0.6mm, Pb-Free)</b>									
LK32AABAGL	L-SEOUL	MR074006	R1	CY8C20434-12LKXI	121	168	80	0	
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	121	168	80	0	
LK32IGAGL	RA-CML	MR071010	R1	CS6655AA	121	168	78	0	
LK32IGAGL	RA-CML	MR072041	R1	CS6655AAT	121	168	72	0	
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	121	168	80	0	
LK32IGAGL	RA-CML	NR063003	R1	CY8C21434-24LKXI	121	168	50	0	
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	121	168	80	0	
<b>Summary for Package Family : QFN (Punch Type, 0.6mm, Pb-Free) (7 records)</b>									
<b>Sum</b>								<b>520</b>	<b>0</b>
<b>QFN (Saw Type, Pb-Free)</b>									
LT68AAAAGL	AIT-Indonesia	72603	R2	CY8C24994A-24LKXI	121	168	77	0	
LT32BAAAGL	CA-MALAYSIA	74701	R1	CY8C21434-24LTXI	121	168	80	0	
24L QFN	AIT-INDONESIA	71706	R5	8C20334A	121	168	77	0	
<b>Summary for Package Family : QFN (Saw Type, Pb-Free) (3 records)</b>									
<b>Sum</b>								<b>234</b>	<b>0</b>
<b>QFN (Saw Type, 0.6mm, Pb-Free)</b>									
LQ24ABAAL	AT-IND	MR074008	R1	CP6705ATT	121	168	79	0	
LQ24ABAAL	AT-INDONESIA	NR073002	R1	CP6705ATT	121	168	80	0	
LQ24ABAAL	AT-INDONESIA	NR073002	R2	CP6705AT	121	168	78	0	
LQ24ABAAL	AIT-INDONESIA	NR074003	R1	CY8C20334-12LQXI	121	168	80	0	
LQ24ABAAL	AIT-INDONESIA	NR074003	R2	CY8C20334-12LQXI	121	168	80	0	
LQ32CAAAAL	CARSEM MALAYSIA	72202	R1	CY8C21434A-24LQXI	121	168	77	0	
LQ32CAAAAL	CARSEM MALAYSIA	72202	R2	CY8C21434-24LQXI	121	168	77	0	
<b>Summary for Package Family : QFN (Saw Type, 0.6mm, Pb-Free) (7 records)</b>									
<b>Sum</b>								<b>551</b>	<b>0</b>
<b>QSOP (Pb-Free)</b>									
SQ2414AGN	R-CML	MR072005	R1	CY7C63743C-QXC	121	168	80	0	
SQ2414AGN	R-CML	MR073054	R1	CY7C63823-QXC	121	168	68	0	
SQ2012AGN	R-CML	MR074050	R1	CY24745OXC	121	168	80	0	
<b>Summary for Package Family : QSOP (Pb-Free) (3 records)</b>									
<b>Sum</b>								<b>228</b>	<b>0</b>
<b>SNC</b>									
SN2831AHN									
<b>Summary for Package Family : SNC (0 record)</b>									
<b>Sum</b>								<b>0</b>	<b>0</b>
<b>SNC (Pb-Free)</b>									
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	121	168	80	0	
SY2831BLN	R-CML	MR073014	R1	CY62256NLL-70SNXC	121	168	80	0	
<b>Summary for Package Family : SNC (Pb-Free) (2 records)</b>									
<b>Sum</b>								<b>160</b>	<b>0</b>
<b>SOIC</b>									
S0815BAAGB	O-TAIWAN	MR074054	R1	CY2304SI-1T	121	168	77	0	
S0815KAGB	AMKOR-M	MR074062	R1	CY2302SC-1T	121	168	80	0	
S1615DAGB	M-PHIL	MR073038	R1	CY2292SI-705T	121	168	80	0	
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	121	1176	46	0	
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	121	1344	46	0	
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	121	1512	46	0	
S1615KAGN	RA-CML	MR071055	R1	CY2309SC-1H	121	168	80	0	

S1615KAGN	R-CML	MR073015	R1	CY2309NZSC-1H	121	168	80	0	
<b>Summary for Package Family : SOIC (8 records)</b>									
<b>Sum</b>								<b>535</b>	<b>0</b>
<b>SOIC (Pb-Free)</b>									
16L SOIC	T-TAIWAN	71603	R3A	CYV15G0101EQ-SXC	121	168	77	0	
SZ1615DGN	M-PHIL	MR073039	R1	CY2292FXC	121	168	80	0	
SZ1615DGN	M-Philis	MR074022	R1	CY8C21234-24SXI	121	168	80	0	
SZ1615FAL	T-TAIWAN	70504	R1A	CYV15G0102EQ-SXCES	121	168	77	0	
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	121	168	80	0	
SZ1615KGN	RA-CML	MR072020	R1	CY2309SXC-1	121	168	80	0	
SZ1615KGN	RA-CML	MR073010	R1	CY2309SXC-1HT	121	168	80	0	
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	121	168	80	0	
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXI-1T1	121	168	79	0	
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	121	168	80	0	
SZ183AGAN	M-PHIL	MR072028	R1	CY7C63723-SXC	121	168	78	0	
SZ183CGAN	RA-CML	MR072026	R1	CY7C63723-SXC	121	168	80	0	
SZ183CGAN	RA-CML	MR073013	R1	CY7C63723-SXC	121	168	80	0	
SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	121	168	80	0	
SZ2035GAL	R-CML	MR072009	R1	CY8C24223A-24SXI	121	168	76	0	
SZ24312GN	R-CML	MR074040	R1	CS6575AA	121	168	80	0	
SZ323ABAGS	M-PHIL	70802	A	CY14B101L-SZ45XC	121	168	50	0	
SZ323ABAGS	M-PHIL	70802	A	CY14B101L-SZ45XC	121	288	50	0	
SZ324513LN	R-CML	MR073007	R1	CY62128BNLL-70SXIT	121	168	80	0	
SZ32457LN	R-CML	MR072007	R1	CY62128ELL-45SXI	121	168	80	0	
SZ32457LN	R-CML	MR074005	R1	CG6707AM	121	168	80	0	
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	121	168	79	0	
SZ815DAGN	M-PHIL	MR071023	R1	CY2305SXC-1HT	121	168	80	0	
SZ815DAGN	M-PHIL	MR072002	R1	CY2305SXI-1H	121	168	80	0	
SZ815PAGN	RA-CML	71306	R1	CY25560BR	121	168	80	0	
SZ815PAGN	RA-CML	71306	R1A	CY25560BR	121	168	80	0	
SZ815PAGN	RA-CML	71306	R2	CY25560BR	121	168	80	0	
<b>Summary for Package Family : SOIC (Pb-Free) (27 records)</b>									
<b>Sum</b>								<b>2,086</b>	<b>0</b>
<b>SSOP</b>									
O563AXAGN	R-CML	MR071027	R1	CY28419OC	121	168	80	0	
<b>Summary for Package Family : SSOP (1 record)</b>									
<b>Sum</b>								<b>80</b>	<b>0</b>
<b>SSOP (Pb-Free)</b>									
SP2024AGL	M-PHIL	MR072011	R1	CG6646AA	121	168	80	0	
SP2026YAN	T-TAIWAN	MR071006	R1	CY8C21334-24PVXI	121	168	80	0	
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	121	168	80	0	
SP2029AAGL	RA-CML	NR064003	R3	CY8C21334-24PVXI	121	168	75	0	
SP2029AAGL	RA-CML	NR064003	R5	CY8C21334-24PVXI	121	168	95	0	
SP2814HAL	M-PHIL	63210	R1	CY8C27443-24PVXI	121	500	47	0	
SP2814HAL	M-PHIL	MR064068	R1	CS6250AM	121	168	50	0	
SP2814HAL	M-PHIL	MR064068	R1	CS6250AM	121	168	50	0	
SP2814HAL	M-PHIL	MR064068	R1	CS6250AM	121	168	50	0	
SP28214GL	T-TAIWAN	MR064082	R1	CY7C64215-28PVXC	121	288	98	0	
SP28214GL	T-TAIWAN	MR072004	R1	CY8C24423A-24PVXI	121	168	80	0	
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	121	168	80	0	
SP28215GGL	RA-CML	MR072021	R1	CY8C1534-24PVXIT	121	168	80	0	
SP28215GGL	RA-CML	MR073021	R1	CY8C27443-24PVXI	121	168	78	0	
SP28215GLL	RA-CML	MR071070	R1	CY8C21534-24PVXIT	121	168	97	0	
SP2821AGB	M-PHIL	MR071029	R1	CY8C21534-24PVXI	121	168	100	0	
SP2821AGB	M-PHIL	MR071029	R1	CY8C21534-24PVXI	121	288	100	0	
SP2822BGL	M-PHIL	NR071001	R1	CY8C24423A-12PVXE	121	96	49	0	
SP48AAAAAGR	M-PHIL	71101	1	CY14B101L-SP45XC	121	168	45	0	
SP48AAAAAGR	M-PHIL	71101	1	CY14B101L-SP45XC	121	288	45	0	
SP563AAGN	R-CML	MR071041	R1	CY28409OXCT	121	168	79	0	
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	121	168	79	0	

SP563BBGL	T-TAIWAN	MR072029	R1	CY7C68013A-56PVXC	121	168	80	0	
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	121	168	79	0	
<b>Summary for Package Family : SSOP (Pb-Free) (24 records)</b>									
<b>Sum</b>								<b>1,776</b>	<b>0</b>
<b>SOIC (J-Lead)</b>									
V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	121	168	80	0	
V2835GALN	R-CML	MR071001	R1	CY7C185-25VC	121	168	80	0	
V2835GALN	R-CML	MR073047	R1	CY7C185-15VI	121	168	80	0	
V284CGAGGB	O-IND	MR074014	R1	CY7C107BN-15VCT	121	168	77	0	
V32421XLN	R-CML	MR064003	R1	CY7C1019CV33-12VC	121	336	50	0	
V3646GALL	R-CML	MR073033	R1	CY7C1049CV33-	121	168	80	0	
<b>Summary for Package Family : SOIC (J-Lead) (6 records)</b>									
<b>Sum</b>								<b>447</b>	<b>0</b>
<b>SOIC (J-Lead, Pb-Free)</b>									
VZ28311KLL	R-CML	MR073008	R1	CY7C1399BNL-15VXCT	121	168	80	0	
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	121	168	80	0	
VZ32418LL	R-CML	NR064001	R1	7C109SMC-RVZC	121	168	50	0	
VZ32418LL	R-CML	NR064001	R2	7C109SMC-RVZC	121	168	50	0	
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	121	168	80	0	
VZ3648GALL	R-CML	MR073032	R1	CY7C1049DV33-10VXIT	121	168	71	0	
<b>Summary for Package Family : SOIC (J-Lead, Pb-Free) (6 records)</b>									
<b>Sum</b>								<b>411</b>	<b>0</b>
<b>TQFP</b>									
A100SEGAGL	R-CML	MR073004	R1	CY7B994V-2AC	121	168	80	0	
A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	121	168	80	0	
A32BXGBGB	Q-KOREA	MR073040	R1	CY7C433-10AC	121	168	80	0	
A52ASGAGE	Q-KOREA	MR071062	R1	CY7B9973V-AC	121	168	80	0	
<b>Summary for Package Family : TQFP (4 records)</b>									
<b>Sum</b>								<b>320</b>	<b>0</b>
<b>TQFP (10 X 10)</b>									
AS64CGAGB	Q-KOREA	MR073048	R1B	CY7C4275-15ASC	121	168	76	0	
<b>Summary for Package Family : TQFP (10 X 10) (1 record)</b>									
<b>Sum</b>								<b>76</b>	<b>0</b>
<b>TQFP (Pb-Free)</b>									
AZ100RUAGN	R-CML	65105	R1(1)	CY7C68013A-100AXC	121	168	50	0	
AZ100RUAGN	R-CML	65105	R1A	CY7C68013A-100AXC	121	168	30	0	
AZ100RXLL	R-CML	MR071051	R1	CY7C1354CV25-166AXC	121	168	80	0	
AZ100RXLL	R-CML	MR072033	R1	CY7C1360C-166AXI	121	168	80	0	
AZ100SFAL	R-CML	MR073022	R1	CY7C1049DV33-10VXIT	121	168	79	0	
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	121	168	80	0	
AZ128SALL	R-CML	MR072015	R1	CY7C64713-128AXC	121	168	76	0	
AZ32BXGAN	Q-KOREA	MR073057	R1	CY7C4251-15AXC	121	168	80	0	
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	121	168	80	0	
AZ44SFGAN	R-CML	MR073031	R1	CY37032VP44-100AXC	121	168	79	0	
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	121	168	80	0	
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	121	168	80	0	
<b>Summary for Package Family : TQFP (Pb-Free) (12 records)</b>									
<b>Sum</b>								<b>874</b>	<b>0</b>
<b>TQFP (Thermal)</b>									
AT120ABAGE	Q-KOREA	NR072029	R1	CYS25G0101DX-ATXC	121	168	80	0	
AT120ABAGE	Q-KOREA	NR072029	R2	CYS25G0101DX-ATXC	121	168	80	0	
AT120ABAGE	Q-KOREA	NR072029	R3	CYS25G0101DX-ATXC	121	168	80	0	
<b>Summary for Package Family : TQFP (Thermal) (3 records)</b>									
<b>Sum</b>								<b>240</b>	<b>0</b>
<b>TQFP (Thermal, Pb-Free)</b>									
AG120ABAGR	Q-KOREA	NR072017	R1	CYS25G0101DX-ATXC	121	168	80	0	
AG120ABAGR	Q-KOREA	NR072017	R2	CYS25G0101DX-ATXC	121	168	50	0	
<b>Summary for Package Family : TQFP (Thermal, Pb-Free) (2 records)</b>									
<b>Sum</b>								<b>130</b>	<b>0</b>
<b>TSOP (Pb-Free)</b>									
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	121	168	80	0	

ZT28RGLL	R-CML	MR073052	R1	CY7C199D-10ZXI	121	168	80	0
ZT32RABALL	T-TAIWAN	MR073024	R1	CY62128ELL-45ZXIT	121	168	80	0
ZT32RABALL	T-TAIWAN	MR073034	R1	CY62128EV30LL-45ZXI	121	168	80	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	121	168	78	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	121	16	45	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	121	168	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	121	168	45	0
ZT32RZALL	T-TAIWAN	MR064078	R1	CY7C109D-10ZXI	121	168	50	0

**Summary for Package Family : TSOP (Pb-Free) (9 records)**

**Sum** **583** **0**

**TSOP I**

**Summary for Package Family : TSOP I (0 record)**

**Sum** **0** **0**

**TSOP I (Pb-Free)**

ZB32RHALL	R-CML	64507	R1	CY62128BLL-55ZAXIT	121	168	50	0
ZB32RHALL	R-CML	NR072020	R1	CY62128BLL-70ZAXI	121	168	80	0
ZB32RHALN	R-CML	MR071021	R1	CY62128EV30LL-45ZAXI	121	168	80	0
ZB32RHALN	R-CML	MR073025	R1	CY62128EV30LL-45ZAXI	121	168	80	0
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	121	168	80	0
ZB32RKALL	T-TAIWAN	MR064071	R1	CY62128ELL-45ZAXI	121	168	50	0

**Summary for Package Family : TSOP I (Pb-Free) (6 records)**

**Sum** **420** **0**

**TSOP II**

ZS444ABAL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	121	168	80	0
ZS444AJALN	R-CML	MR071022	R1	CY7C1021CV33-10ZI	121	168	80	0
ZS444RAGB	R-CML	MR073027	R1	CG6079AA	121	168	80	0

**Summary for Package Family : TSOP II (3 records)**

**Sum** **240** **0**

**TSOP II (Pb-Free)**

ZW324GALL	T-OSE	MR074042	R1	CY7C1019D-10ZSXI	121	168	80	0
ZW444AJGN	R-CML	MR073012	R1	CY7C1021CV33-12ZXC	121	168	80	0
ZW444AJLN	R-CML	MR071048	R1	CY7C1020CV33-15ZSXE	121	96	80	0
ZW444AJLN	R-CML	MR071048	R1	CY7C1020CV33-15ZSXE	121	168	80	0
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	121	168	80	0
ZW544AALL	G-TAIWAN	MR064024	R1	CY7C1061AV33-12ZXC	121	168	50	0
ZW544AALL	G-TAIWAN	MR064024	R1	CY7C1061AV33-12ZXC	121	168	50	0

**Summary for Package Family : TSOP II (Pb-free) (7 records)**

**Sum** **500** **0**

**EXPOSED TSOP (Pb-free)**

ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXEC	121	168	80	0
-----------	---------	----------	----	---------------	-----	-----	----	---

**Summary for Package Family : EXPOSED TSOP (Pb-free) (1 record)**

**Sum** **80** **0**

**RTSOP**

ZR28R2AGN	R-CML	MR073030	R1	CY62256LL-70ZRIT	121	168	80	0
-----------	-------	----------	----	------------------	-----	-----	----	---

**Summary for Package Family : RTSOP (1 record)**

**Sum** **80** **0**

**RTSOP (Pb-free)**

ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	121	168	80	0
-----------	-------	----------	----	----------------	-----	-----	----	---

**Summary for Package Family : RTSOP (Pb-free) (1 record)**

**Sum** **80** **0**

**TSSOP**

Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	121	168	80	0
Z1613GAGB	T-TAIWAN	MR071009	R1	CY2308ZI-1H	121	168	80	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	121	168	80	0
Z1619GAGN	RA-CML	MR073011	R1	CY22050FI	121	168	80	0
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	121	168	78	0

**Summary for Package Family : TSSOP (5 records)**

**Sum** **398** **0**

**TSSOP (Pb-Free)**

ZZ08	VIGILANT-Thailand	72303	R1	CY24904ZXC	121	168	76	0
------	-------------------	-------	----	------------	-----	-----	----	---

ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	121	168	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	121	288	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	121	500	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	121	168	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	121	288	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	121	500	49	0	
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	121	168	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	121	288	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	121	500	50	0	
ZZ1614HAN	T-TAIWAN	MR071054	R1	CY26049ZXI-36	121	168	80	0	
ZZ1619GAN	RA-CML	MR071057	R1	CY2309ZXI-1H	121	168	80	0	
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXI-1H	121	336	80	0	
ZZ1619GAN	RA-CML	MR073023	R1	CY22392ZXC-386	121	168	80	0	
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	121	168	80	0	
ZZ2817AGL	RA-CML	MR071043	R1	CY28517ZXCT	121	168	78	0	
ZZ2817AGL	RA-CML	NR072006	R1	CY28517ZXC	121	168	80	0	
ZZ2817AGL	R	NR072006	R2	CY28547ZXC	121	168	80	0	
ZZ2817AGL	RA-CML	NR072006	R3	CY24270ZXC	121	168	80	0	
ZZ5624BGN	R-CML	MR071002	R1	CY505YC56DT	121	168	80	0	
ZZ5624BGN	R-CML	MR072010	R1	CY505YC56DT	121	168	80	0	
<b>Summary for Package Family : TSSOP (Pb-free) (21 records)</b>									
<b>Sum</b>							<b>1,403</b>	<b>0</b>	



**Summary Detail -- HAST Performance Over Time**

**From:** 1/1/2007  
**To:** 1/6/2008

Bidkit	Assy Loc	EvalNum	TV	Device	Temp	Volt	Readout	SS	Rejects	FA	Results
<b>FBGA (0.75-0.8, 0.3mm)</b>											
BA48	T-OSE	MR074046	R1	CY62137CVSL-70BAIT	130	3.63	128	77	0		
BA48BQAALE	RA-CML	MR071064	R1A	CY62137CVSL-70BAI	130	3.6	128	47	0		
BA48BQAALE	RA-CML	MR073051	R1	CY62137CVSL-70BAIT	130	3.6	128	80	0		
BA48CDGALE	G-TAIWAN	MR073003	R1A	CY7C1041CV33-10BAC	130	3.65	128	35	0		
BA48CRALE	T-TAIWAN	MR064017	R1	CY62137CVSL-70BAIT	130	3.6	128	21	0		
BA48CRALE	T-TAIWAN	MR064017	R1A	CY62137CVSL-70BAIT	130	3.6	128	21	0		
BA48CRALE	T-TAIWAN	MR071052	R1A	CY62137CVSL-70BAI	130	3.6	128	28	0		
BA48CRALE	T-TAIWAN	MR071053	R1	CY62137CVSL-70BAI	130	3.63	128	14	0		
<b>Summary for Package Family : FBGA (0.75-0.8) (8 records)</b>								<b>323</b>	<b>0</b>		
<b>Sum</b>											
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>											
BK48ABAALL	AIT-INDONESIA	73503	R1	CY62137CVSL-70BAXI	130	3.6	128	40	0		
BK48ABAALL	AIT-INDONESIA	73503	R1A	CY62137CVSL-70BAXI	130	3.6	128	36	0		
BK48BQALL	RA-CML	MR071046	R1	CY62137CVSL-70BAXI	130	5.5	128	80	0		
BK48BQALL	RA-CML	MR073046	R1	CY62137CVSL-70BAXIT	130	3.6	128	71	0		
BK48BWALL	G-TAIWAN	MR071045	R1	CY7C1021CV33-8BAXC	130	3.65	128	46	0		
BK48BWALL	G-TAIWAN	MR072032	R1	CY7C1021CV33-10BAXI	130	3.65	128	46	0		
BK48BWALL	G-Taiwan	MR072032	R1A	CY7C1021CV33-10BAXI	130	3.65	128	34	0		
BK48BWALL	G-TAIWAN	MR073041	R1	CY7C1021CV33-10BAXI	130	3.65	128	50	0		
BK48CDALL	G-TAIWAN	73205	R1	CY7C1041CV33-20BAI	130	3.63	96	84	0		
FBGA 60	AT - Indonesia	73603	R1	CY7C1069A	130	3.65	128	31	0		
FBGA 60	AT - Indonesia	73603	R1	CY7C1069A	130	3.65	128	27	0		
FBGA 60	AT - Indonesia	73603	R1	CY7C1069A	130	3.65	128	18	0		
<b>Summary for Package Family : FBGA (0.75-0.8, Pb-Free) (12 records)</b>								<b>563</b>	<b>0</b>		
<b>Sum</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		
BB165AAAGL	AT-INDONESIA	71207	R1	CY7C1305BV25	130	1.98	128	56	0		
BB165AAAGL	AT-INDONESIA	71207	R1A	CY7C1305BV25	130	1.98	128	21	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		
<b>Summary for Package Family : FBGA (1.0) (7 records)</b>								<b>327</b>	<b>0</b>		
<b>Sum</b>											
<b>VFBGA (0.75-0.8, 0.3mm)</b>											
BV48BNALE	G-TAIWAN	63901	3	CY62167DV30LL	130	3.6	128	45	0		
BV48BNALE	G-TAIWAN	63901	R1	CY62167DV30LL	130	3.6	128	44	0		
BV48BNALE	G-TAIWAN	63901	R2	CY62167DV30LL	130	3.6	47	23	0		
BV48BNALE	G-TAIWAN	63901	R3	CY62167DV30LL	130	3.6	128	45	0		
BV48BNALE	G-TAIWAN	70203	1	CY62167DV30LL	130	3.6	128	42	0		
BV48BNALE	G-TAIWAN	70203	R2	CY62167DV30LL	130	3.6	128	43	0		
BV48RAALE	G-TAIWAN	MR071058	R1	CY7C1011CV33-10BVI	130	3.65	128	32	0		
BV48RAALE	G-TAIWAN	MR071058	R1A	CY7C1011CV33-10BVI	130	3.65	128	42	0		
<b>Summary for Package Family : VFBGA (0.75-0.8, 0.3mm) (8 records)</b>								<b>316</b>	<b>0</b>		
<b>Sum</b>											
<b>VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>											
48 VFBGA	AT-INDONESIA	71902	R4	CY62157DV30LL-70BVXU	130	3.6	128	80	0		
BZ100CGAL	RA-CML	61603	2A	CYWB0124AB-BVXI	130	3.63	128	77	0		
BZ48ABAAGL	AT-INDONESIA	65103	R1	CYK256K6C9BW-70BVXI	130	3.3	128	45	0		
BZ48ATALL	RA-CML	MR071040	R1	CY62157DV30LL-70BVXI	130	3.63	128	34	0		

BZ48ATALL	RA-CML	MR071040	R1	CY62157DV30LL-70BVXI	130	3.63	128	44	0	
BZ48BAAALL	G-TAIWAN	MR071038	R1	CY62157DV30LL-70BVXI	130	3.63	128	80	0	
BZ48BBAALL	AT-INDONESIA	72302	R1	CY62167DV30LL-70BVXI	130	3.6	128	77	0	
BZ48CHAALL	G-TAIWAN	MR073005	r1	CY62126EV30LL-45BVXI	130	3.6	128	39	0	
BZ48CHAALL	G-TAIWAN	MR073005	r1	CY62126EV30LL-45BVXI	130	3.6	128	40	0	
BZ48CNAALL	G-TAIWAN	70906	R4	CY62167DV30LL	130	3.6	128	44	0	
BZ48CRALL	G-TAIWAN	71302	R1	CY62167EV30	130	3.6	128	22	0	
BZ48CRALL	G-TAIWAN	71302	R1A	CY62167EV30	130	3.6	128	22	0	
BZ48CRALL	G-TAIWAN	71302	R2A	CY62167EV30	130	3.6	128	38	0	
BZ48CRALL	G-TAIWAN	71405	R1A	CY62167EV30	130	3.6	128	22	0	
BZ48CRALL	G-TAIWAN	71405	R3	CY62167EV30	130	3.6	128	38	0	
BZ48CRALL	G-TAIWAN	71405	R3A	CY62167EV30	130	3.6	128	38	0	
BZ56IAAAGL	AT-TAIWAN	MR074053	R1	CY7C68053-56BAXIT	130	3.63	128	40	0	
BZ56IAAAGL	AT-IND	MR074053	R1A	CY7C68053-56BACIT	130	3.63	128	40	0	
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	130	3.63	128	45	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) (21 records)</b>										
<b>Sum</b>									<b>978</b>	<b>0</b>
<b>PBGA (with Heat Spreader)</b>										
BG119ABALE	AT - Indonesia	73702	R1	CY7C1012SV33	130	3.65	128	32	0	
BG119ABALE	AT - Indonesia	73702	R1	CY7C1012SV33	130	3.65	128	47	0	
<b>Summary for Package Family : PBGA (with Heat Spreader) (2 records)</b>									<b>79</b>	<b>0</b>
<b>Sum</b>										
<b>PDIP</b>										
P2839GAAGB	X-THAILAND	MR071039	R1	CY7C185-25PC	130	5.5	128	80	0	
<b>Summary for Package Family : PDIP (1 record)</b>										
<b>Sum</b>									<b>80</b>	<b>0</b>
<b>PDIP (Pb-Free)</b>										
PZ183AXGN	O-INDONESIA	65001	R1	CY7C63813-PXC	130	5.5	128	46	0	
PZ183AXGN	O-INDONESIA	65001	R2	CY7C63813-PXC	130	5.5	128	46	0	
PZ183AXGN	O-INDONE	65001	R3	CY7C63813-PXC	130	5.5	128	46	0	
PZ183AXGN	O-INDONESIA	70501	R1	CS6632AF	130	5.5	128	77	0	
PZ183AXGN	O-INDNS	MR071003	R1	CY7C63723C-PXC	130	5.5	128	44	0	
PZ183BXGL	RA-CML	NR063002	R2	7C63720AT-RAPZC	130	5.5	128	80	0	
PZ183BXGL	RA-CML	NR063002	R3	7C63720AT-RAPZC	130	5.5	128	80	0	
PZ283EHAL	O-INDNS	MR071031	R1	CY8C24423A-24PXI	130	5.25	128	77	0	
PZ283EHAL	O-INDS	MR073018	R1	CY8C24423A-24PXI	130	5.25	128	77	0	
<b>Summary for Package Family : PDIP (Pb-Free) (9 records)</b>										
<b>Sum</b>									<b>573</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	
J32RBGAGB	M-PHIL	MR071007	R1	CY7B991-5JC	130	3.63	128	40	0	
J32RBGAGB	M-PHIL	MR071007	R1A	CY7B991-5JC	130	3.63	128	40	0	
<b>Summary for Package Family : PLCC (4 records)</b>										
<b>Sum</b>									<b>160</b>	<b>0</b>
<b>PLCC (Pb-Free)</b>										
JZ32RBGAN	M-PHIL	71206	R1A	CY7B991V-JZ	130	3.6	128	40	0	
JZ32RBGAN	M-PHIL	71206	R1B	CY7B991V-JZ	130	3.6	128	37	0	
JZ32RBGAN	M-PHIL	MR071067	R1	CY7C4231-15JXC	130	5.5	128	40	0	
JZ32RBGAN	M-PHIL	MR071067	R1A	CY7C4231-15JXC	130	5.5	128	40	0	
<b>Summary for Package Family : PLCC (Pb-Free) (4 records)</b>										
<b>Sum</b>									<b>157</b>	<b>0</b>
<b>QFN (COL, 0.6mm, Saw Type, Pb-free)</b>										
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	130	5.25	128	39	0	
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	130	5.25	128	40	0	
<b>Summary for Package Family : QFN (Saw Type, 0.6mm, COL, Pb-free) (2 records)</b>										
<b>Sum</b>									<b>79</b>	<b>0</b>
<b>QFN (0.6mm, Punch Type, Pb-Free)</b>										
LK32AAAAGL	L-KOREA	70305	R1	CY8C21434-24LKXI	130	5.5	128	45	0	

LK32AABAGL	L-KOREA	MR073006	R1	CY8C20434-12LFXI	130	5.25	128	73	0
LK32AABAGL	L-SEOUL	MR074006	R1	CY8C20434-12LKXI	130	5.25	128	40	0
LK32AABAGL	L-KOREA	MR074006	R1A	CY8C20434-12LKXI	130	5.25	128	40	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	130	5.25	128	40	0
LK32AABAGL	L-KOREA	MR074043	R1A	CY8C20434-12LKXI	130	5.25	128	34	0
LK32IGAGL	RA-CML	MR072041	R1	CS6655AAT	130	5.25	128	77	0
LK32IGAGL	RA	MR073063	R1A	CP6693AAT	130	5.25	128	27	0
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	130	5.25	128	49	0
LK32IGAGL	CML-RA	MR074024	R1A	CP6745AMT	130	5.25	128	29	0

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

**Sum** **454** **0**

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

LY32AGAGL	L-KOREA	MR072001	R1	CG6672AMT	130	5.25	128	72	0
LY32AGAGL	L-KOREA	NR072004	R1	CP6631AM	130	5.25	128	80	0
LY56AGAGL	L-KOREA	70901	R1	CY7C65630-56LFXC	130	3.8	96	76	0
LY56AGAGL	L-KOREA	70901	R2A	CY7C65630-56LFXC	130	3.63	96	75	0
LY56AGAGL	L-KOREA	70901	R3	CY7C65630-56LFXC	130	3.63	96	73	0
LY56AGAGL	L-KOREA	MR071035	R1	CY7C65630-56LFXC	130	3.63	128	31	0
LY56AGAGL	L-KOREA	MR071035	R1A	CY7C65630-56LFXC	130	3.63	128	44	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
LY68AGAGL	L-KOREA	NR064004	R3	8C24994AT-LLYI	130	5.25	128	35	0
LY72AGAGL	L-KOREA	MR072006	R1	CY28447LFXC	130	3.8	128	48	0
LY72AGAGL	L-KOREA	MR072006	R1A	CY28447LFXC	130	3.8	128	32	0

**Summary for Package Family : QFN (Punch Type, Pb-Free) (12 records)**

**Sum** **703** **0**

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

LQ24ABAAL	AT-IND	MR074008	R1	CP6705ATT	130	5.25	128	42	0
LQ24ABAAL	AT	MR074008	R1A	CP6705ATT	130	5.25	128	36	0
LQ32BAAAAGL	AT-Indonesia	70307	R1	CY8C21434A	130	5.25	128	76	0
LQ32CAAAL	CARSEM	72202	R1	CY8C21434A-24LQXI	130	5.25	128	77	0
LQ32CAAAL	CARSEM	72202	R2	CY8C21434-24LQXI	130	5.25	128	77	0

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

**Sum** **308** **0**

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

LT32BAAAAGL	CA-MALAYSIA	74701	R1	CY8C21434-24LTXI	130	5.25	128	80	0
LT68AAAAGL	AIT-Indonesia	72603	R2	CY8C24994A-24LKXI	130	5.25	128	32	0
LT68AAAAGL	AIT-Indonesia	72603	R2	CY8C24994A-24LKXI	130	5.25	128	45	0

**Summary for Package Family : QFN (Saw Type, Pb-free) (3 records)**

**Sum** **157** **0**

**QSOP (Pb-Free)**

SQ2414AGN	R-CML	MR072005	R1	CY7C63743C-QXC	130	5.5	128	77	0
-----------	-------	----------	----	----------------	-----	-----	-----	----	---

**Summary for Package Family : QFN (Pb-Free) (1 record)**

**Sum** **77** **0**

**SNC (Pb-Free)**

SY2831BLN	R-CML	MR073014	R1	CY62256NLL-70SNXC	130	5.5	128	42	0
SY2831BLN	R-CML	MR073014	R1A	CY62253NLL-70SNXC	130	5.5	128	38	0

**Summary for Package Family : SNC (Pb-Free) (2 records)**

**Sum** **80** **0**

**SOIC**

S0815BAAGB	T-TAIWAN	MR071034	R1	CY2304SC-1T	130	3.3	128	77	0
S0815BAAGB	O-INDS	MR073020	R1	CY2304SC-2T	130	3.63	128	77	0
S0815BAGB	O-INDONESIA	MR064002	R1	CY2304SC-1T	130	3.63	128	44	0
S0815DAGB	M-PHIL	MR064060	R1	CY2907SL-220	130	3.63	128	49	0
S1615KAGN	RA-CML	MR071055	R1	CY2309SC-1H	130	3.63	128	80	0
S1615KAGN	R-CML	MR073015	R1	CY2309NZSC-1H	130	3.8	128	56	0
S1615KAGN	RA-CML	MR073015	R1A	CY2309NZSC-1H	130	3.8	128	23	0

**Summary for Package Family : SOIC (7 records)**

**Sum** **406** **0**



**SOIC (Pb-Free)**

S0815BAAGB	O-TAIWAN	MR074054	R1	CY2304SI-1T	130	3.63	128	77	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	130	5.25	128	80	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	130	3.8	128	78	0
SZ1615KGN	RA-CML	MR071056	R1	CY2309SXI-1H	130	3.63	128	80	0
SZ1615KGN	RA-CML	MR072020	R1	CY2309SXC-1	130	3.63	128	80	0
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	130	3.8	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
SZ183CGAN	RA-CML	MR072026	R1A	CY7C63723-SXC	130	5.5	128	40	0
SZ2035GAL	R-CML	MR064053	R1	CY8C24223A-24SXI	130	3.63	128	50	0
SZ2035GAL	R-CML	MR072009	R1	CY8C24223A-24SXI	130	5.25	128	50	0
SZ2035GAL	R-CML	MR072009	R1A	CY8C24223A-24SXI	130	5.25	128	30	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	130	5.5	128	80	0
SZ323ABAGS	M-PHIL	70802	A	CY14B101L-SZ45XC	130	3.6	128	42	0
SZ324514LL	R-CML	MR064021	R1	CY62148DV30LL-70SXI	130	3.6	128	49	0
SZ32457LN	R-CML	MR072007	R1	CY62128ELL-45SXI	130	3.6	128	80	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	130	3.6	128	77	0
SZ815CCGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	130	5.25	128	76	0
SZ815DAGN	M-PHIL	MR072002	R1	CY2305SXI-1H	130	3.63	128	80	0

**Summary for Package Family : SOIC (Pb-Free) (19 records)**

**Sum** **1,289** **0**

**SSOP**

O563AXAGN	R-CML	MR071027	R1	CY28419OC	130	3.8	128	44	0
O563AXAGN	R-CML	MR071027	R1A	CY28419OC	130	3.8	128	36	0

**Summary for Package Family : SSOP (2 records)**

**Sum** **80** **0**

**SSOP (Pb-Free)**

SP2023GAL	T-TAIWAN	MR071036	R1	CS6585AMT	130	5.25	128	73	7	MR071036-1A2	7-Bond Pad Corrosion
SP2024AGL	M-PHIL	MR072011	R1	CG6646AA	130	5.25	128	78	0		
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	130	5.25	128	79	0		
SP2029AAGL	RA-CML	NR064003	R1	CY8C21334-24PVXI	130	5.5	128	48	0		
SP2029AAGL	RA-CML	NR064003	R2	CY8C21334-24PVXI	130	5.5	128	77	0		
SP2029AAGL	RA-CML	NR064003	R3	CY8C21334-24PVXI	130	5.5	128	62	0		
SP2814HAL	M-PHIL	MR064068	R1	CS6250AM	130	3.63	128	45	0		
SP28214GL	T-TAIWAN	MR064005	R1	CY8C24423A-24PVXI	130	5.25	128	40	0		
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	130	5.25	128	80	0		
SP28215GGL	RA-CML	MR072021	R1	CY8C1534-24PVXIT	130	5.25	128	80	0		
SP483AGAN	R-CML	MR072017	R1	CY7C63413C-PVXC	130	5.5	128	47	0		
SP483AGAN	R-CML	MR072017	R1A	CY7C63413C-PVXC	130	5.5	128	33	0		
SP48AAAAGR	M-PHIL	71101	3	CY14B101L-SP45XC	130	3.6	128	45	0		
SP563AAGN	R-CML	MR064026	R1	CY28410OXC	130	3.63	128	45	0		
SP563BAGL	R-CML	65201	R1	CY7C68053-56PVC	130	3.63	128	42	0		
SP563BAGL	R-CML	MR073055	R1	CP6603AMT	130	5.5	128	77	0		
SP563BBGL	T-TAIWAN	MR072029	R1	CY7C68013A-56PVXC	130	3.63	128	44	0		
SP563BBGL	T-TAIWAN	MR072029	R1	CY7C68013A-56PVXC	130	3.63	128	35	0		
SP56BAGL	CML-R	65201	R2A	CY7C68053-PVXI	130	3.63	128	45	0		

**Summary for Package Family : SSOP (Pb-Free) (19 records)**

**Sum** **1,075** **7**

**SOIC (J-Lead)**

V28311ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	130	5.5	128	79	0
V2835GALN	R-CML	MR071001	R1	CY7C185-25VC	130	5.5	128	80	0
V2835GALN	R-CML	MR073047	R1	CY7C185-15VI	130	5.5	128	79	0
V284CGAGGB	O-Ind	MR073017	R1A	CY7C107BN-15VC	130	5.55	128	26	0
V32421GLN	R-CML	MR071050	R1	CY7C1019CV33-12VI	130	5.5	128	66	0
V32421GLN	R-CML	MR071050	R1A	CY7C1019CV33-12VI	130	3.63	128	13	0
V3646GALL	R-CML	MR073033	R1	CY7C1049CV33-	130	3.63	128	68	0
V3646GALL	R-CML	MR073033	R1A	CY7C1049CV33-12VI	130	3.8	128	12	0

**Summary for Package Family : SOIC (J-Lead) (8 records)**

**Sum** **423** **0**

**SOIC (J-Lead, Pb-Free)**

VZ2439AGS	O-INDONESIA	MR064067	R1	CY7C187-25VXC	130	5.5	128	49	0
VZ2439AGS	O-INDS	MR073016	R1	CY7C187-25VXC	130	5.5	128	77	0
VZ28311KLL	R-CML	MR073008	R1	CY7C1399BNL-15VXCT	130	3.65	128	79	0
VZ3644GALL	R-CML	MR064066	R1	CY7C1049B-15VXI	130	5.5	256	45	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
VZ444ZALL	R-CML	MR071024	R1	CY7C1021CV33-10VXC	130	3.65	128	44	0

**Summary for Package Family : SOIC (J-Lead, Pb-Free) (7 records)**

**Sum** **374** **0**

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

AS64CGAGB	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

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

**Sum** **77** **0**

**TQFP**

A100SEGAGL	R-CML	MR073004	R1	CY7B994V-2AC	130	3.63	128	43	0
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
A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	130	3.63	256	49	0
A52ASGAGE	Q-KOREA	MR071062	R1	CY7B9973V-AC	130	3.63	128	59	0
A52ASGAGE	Q-KOREA	MR071062	R1	CY7B9973V-AC	130	3.63	128	21	0

**Summary for Package Family : TQFP (6 records)**

**Sum** **251** **0**

**TQFP (Pb-Free)**

AZ100RUAGN	R-CML	65105	R1	CY7C68013A-100AXC	130	3.63	128	50	0
AZ100RUAGN	R-CML	65105	R1A	CY7C68013A-100AXC	130	3.63	128	30	0
AZ100RUALN	R-CML	MR064076	R1	CY7C1345G-100AXC	130	3.3	128	47	0
AZ100RXLL	R-CML	71201	R1A	CY7C1354CV25-166AXC	130	3.65	128	80	0
AZ100RXLL	R-CML	MR071051	R1	CY7C1354CV25-166AXC	130	5.5	128	75	0
AZ100RXLL	R-CML	MR072033	R1	CY7C1360C-166AXI	130	3.6	128	79	0
AZ100SFAL	R-CML	MR073022	R1	CY7C1049DV33-10VXIT	130	5.5	128	42	0
AZ100SFAL	R-CML	MR073022	R1A	CY7C024-25AXC	130	5.55	128	37	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	130	5.5	128	43	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
AZ44SFGAN	R-CML	MR073031	R1	CY37032VP44-100AXC	130	5.5	128	39	0
AZ52ASGAL	Q-KOREA	MR064075	R1	CY7B9945V-2AXI	130	3.63	128	50	0
AZ52ASGAL	Q-KOREA	MR064075	R1	CY7B9945V-2AXI	130	3.63	256	50	0
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	130	3.63	128	39	0

**Summary for Package Family : TQFP (Pb-Free) (15 records)**

**Sum** **741** **0**

**TSOP (Pb-free)**

ZT28R6GLL	R-CML	MR073052	R1	CY7C199D-10ZXI	130	5.5	128	79	0
ZT28RAGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	130	3.63	128	77	0
ZT32RABALL	T-TAIWAN	MR071049	R1	CY62128ELL-45ZXI	130	5.5	128	80	0
ZT32RABALL	T-TAIWAN	MR073034	R1	CY62128EV30LL-45ZXI	130	3.6	128	80	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	130	3.6	128	77	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

**Summary for Package Family : TSOP (Pb-free) (8 records)**

**Sum** **521** **0**

**TSOP I (Pb-Free)**

ZB32RHALL	R-CML	NR072020	R1	CY62128BLL-70ZAXI	130	5.5	128	77	0
ZB32RHALN	R-CML	MR064028	R1	CY62128EV30LL-45ZAXI	130	3.6	256	45	0
ZB32RHALN	R-CML	MR071021	R1	CY62128EV30LL-45ZAXI	130	3.63	128	80	0
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	130	5.5	128	76	0
ZB32RKALL	T-TAIWAN	MR064071	R1	CY62128ELL-45ZAXI	130	3.63	128	45	0

**Summary for Package Family : TSOP I (Pb-Free) (5 records)**

**Sum** **323** **0**

<b>TSOP II</b>										
ZS444ABALL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	130	3.65	128	80	0	
ZS444AJALN	R-CML	MR071022	R1	CY7C1021CV33-10ZI	130	3.65	128	80	0	
ZS444RAGB	R-CML	MR073027	R1	CG6079AA	130	5.5	128	78	0	
<b>Summary for Package Family : TSOP II (3 records)</b>										
<b>Sum</b>								<b>238</b>	<b>0</b>	
<b>TSOP II (Pb-Free)</b>										
ZW324CBLL	T-TAIWAN	MR064047	R1	CY62148ELL-45ZSXI	130	5.5	128	49	0	
ZW324FBGL	T-TAIWAN	MR071047	R1	CY7C1019CV33-15ZXC	130	3.65	128	40	0	
ZW324FBGL	T-TAIWAN	MR071047	R1A	CY7C1019CV33-15ZXC	130	3.65	128	40	0	
ZW444AJGN	R-CML	MR073012	R1	CY7C1021CV33-12ZXC	130	3.65	128	80	0	
ZW444AJLN	R-CML	MR071048	R1	CY7C1020CV33-15ZSXE	130	3.65	96	80	0	
ZW444AJLN	R-CML	MR071048	R1	CY7C1020CV33-15ZSXE	130	3.65	128	79	0	
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	130	3.65	128	79	0	
ZW544AAL	G-TAIWAN	MR071071	R1	CY7C1061AV33-10ZXC	130	3.65	128	39	1	MR071071-1AB1
ZW544AAL	G-TAIWAN	MR071071	R1B	CY7C1061AV33-10ZXC	130	3.65	128	36	4	MR071071-1BA1
ZW544AALL	G-TAIWAN	MR071063	R1	CY7C1061AV33-12ZXC	130	3.65	128	36	0	4-Die Edge Delamination
ZW544AALL	G-TAIWAN	MR073058	R1	CY7C1069AV33-12ZXC	130	3.65	128	45	0	
ZW544AALL	G-TAIWAN	MR073058	R1A	CY7C1069AV33-12ZXC	130	3.65	128	35	0	
<b>Summary for Package Family : TSOP II (Pb-free) (12 records)</b>										
<b>Sum</b>								<b>638</b>	<b>5</b>	
ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	130	5.5	128	77	0	
<b>RTSOP (Pb-free)</b>										
<b>Summary for Package Family : RTSOP (Pb-free) (1 record)</b>										
<b>Sum</b>								<b>77</b>	<b>0</b>	
<b>TSSOP</b>										
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	130	5.5	128	80	0	
Z1613GAGB	T-TAIWAN	MR071009	R1	CY2308ZI-1H	130	3.8	128	80	0	
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	130	3.8	128	80	0	
Z1619GAGN	RA-CML	MR073011	R1	CY22050FI	130	3.63	128	80	0	
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	130	3.63	128	80	0	
<b>Summary for Package Family : TSSOP (5 records)</b>										
<b>Sum</b>								<b>400</b>	<b>0</b>	
<b>TSSOP (Pb-Free)</b>										
8L TSSOP	VIGILANT	72303	R1	CY24904ZXC	130	3.15	128	71	0	
8L TSSOP	VIGILANT	72303	R2	CY24904ZXC	130	3.15	128	71	0	
ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	130	2.75	128	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	130	2.75	256	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	130	2.75	512	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	130	2.75	128	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	130	2.75	256	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	130	2.75	512	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	130	2.75	128	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	130	2.75	256	50	0	
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	130	2.75	512	50	0	
ZZ1619GAN	RA-CML	MR073023	R1	CY22392ZXC-386	130	3.63	128	80	0	
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	130	3.63	128	79	0	
ZZ2817AGL	R	NR072006	R2	CY28547ZXC	130	3.63	128	79	0	
ZZ2817AGL	RA-CML	NR072006	R3	CY24270ZXC	130	3.63	128	80	0	
ZZ5624BGN	R-CML	MR071002	R1	CY505YC56DT	130	3.63	128	80	0	
ZZ5624BGN	R-CML	MR072010	R1	CY505YC56DT	130	3.63	128	34	0	
ZZ5624BGN	R-CML	MR072010	R1A	CY505YC56DT	130	3.63	128	45	0	
<b>Summary for Package Family : TSSOP (18 records)</b>										
<b>Sum</b>								<b>1,069</b>	<b>0</b>	



**Summary Detail -- TCT Performance Over Time**

From: 1/1/2007  
To: 1/6/2008

Bidkit	Assy Site	EvalNum	TV	Device	High Temp	Low Temp	Cycles	SS	Rejects	FA	Results
<b>Windowed CLCC (Pb-free)</b>											
84L CLCC	X-THAILAND	70308	R1	CY115SM1300AB-QDC	125	-40	500	15	0		
84L CLCC	X-THAILAND	70308	R1	CY115SM1300AB-QDC	125	-40	1000	15	0		
<b>Summary for Package Family : Windowed CLCC (Pb-free) (2 records)</b>								<b>30</b>	<b>0</b>		
<b>Sum</b>											
<b>FBGA (0.75-0.8, 0.3mm)</b>											
BA48BQAAL	RA-CML	MR071064	R1	CY62137CVSL-70BAI	150	-65	500	80	0		
BA48BQAAL	RA-CML	MR071064	R1	CY62137CVSL-70BAI	150	-65	1000	79	0		
BA48BQAAL	RA-CML	MR073051	R1	CY62137CVSL-70BAIT	150	-65	500	80	0		
BA48CDGALE	G-TAIWAN	MR064063	R1	CY7C1041CV33-10BAC	150	-65	300	49	0		
BA48CDGALE	G-TAIWAN	MR064063	R1	CY7C1041CV33-10BAC	150	-65	1000	44	0		
BA48CDGALE	G-TAIWAN	MR064063	R1	CY7C1041CV33-10BAC	150	-65	500	49	0		
BA48CRALE	T-TAIWAN	MR064017	R1	CY62137CVSL-70BAIT	150	-65	300	46	0		
BA48CRALE	T-TAIWAN	MR064017	R1	CY62137CVSL-70BAIT	150	-65	1000	46	0		
BA48CRALE	T-TAIWAN	MR064017	R1	CY62137CVSL-70BAIT	150	-65	500	46	0		
BA48CRALE	T-TAIWAN	MR071052	R1	CY62137CVSL-70BAI	150	-65	500	80	0		
BA48CRALE	T-TAIWAN	MR071052	R1	CY62137CVSL-70BAI	150	-65	1000	79	0		
BA48CRALE	T-TAIWAN	MR071053	R1	CY62137CVSL-70BAI	150	-65	500	79	0		
BA48CRALE	T-TAIWAN	MR071053	R1	CY62137CVSL-70BAI	150	-65	1000	78	0		
B4V8BAAALE	G-TAIWAN	MR074003	R1	CG6601AA	150	-65	500	80	0		
B4V8BAAALE	G-TAIWAN	MR074003	R1	CG6601AA	150	-65	1000	80	0		
BA60ABAAL	AT - Indonesia	73603	R1	CY7C1069A	150	-65	500	77	0		
BA60ABAAL	AT - Indonesia	73603	R1	CY7C1069A	150	-65	1000X	77	0		
BA60ABAAL	AT - Indonesia	73603	R2	CY7C1069A	150	-65	500	76	0		
BA60ABAAL	AT - Indonesia	73603	R2	CY7C1069A	150	-65	1000X	76	0		
BA60ABAAL	AT - Indonesia	73603	R3	CY7C1069A	150	-65	500	77	0		
BA60ABAAL	AT - Indonesia	73603	R3	CY7C1069A	150	-65	1000X	77	0		
<b>Summary for Package Family : FBGA (0.78-0.8, 0.3mm) (21 records)</b>								<b>1,455</b>	<b>0</b>		
<b>Sum</b>											
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>											
BK48BQALL	RA-CML	MR071046	R1	CY62137CVSL-70BAXI	150	-65	300	79	0		
BK48BQALL	RA-CML	MR071046	R1	CY62137CVSL-70BAXI	150	-65	1000	79	0		
BK48BQALL	RA-CML	MR071046	R1	CY62137CVSL-70BAXI	150	-65	500	79	0		
BK48BQALL	RA-CML	MR073046	R1	CY62137CVSL-70BAXIT	150	-65	500	80	0		
BK48BWALL	G-TAIWAN	MR063106	R1	CY7C1021CV33-10BAXI	150	-65	1000	49	0		
BK48BWALL	G-TAIWAN	MR071045	R1	CY7C1021CV33-8BAXC	150	-65	500	80	0		
BK48BWALL	G-TAIWAN	MR071045	R1	CY7C1021CV33-8BAXC	150	-65	1000	80	0		
BK48BWALL	G-TAIWAN	MR071045	R1A	CY7C1021CV33-10BAXI	150	-65	500	80	0		
BK48BWALL	G-TAIWAN	MR071045	R1A	CY7C1021CV33-10BAXI	150	-65	1000	80	0		
BK48BWALL	G-TAIWAN	MR072032	R1	CY7C1021CV33-10BAXI	150	-65	500	80	0		
BK48BWALL	G-TAIWAN	MR072032	R1	CY7C1021CV33-10BAXI	150	-65	1000	80	0		
BK48BWALL	G-TAIWAN	MR073041	R1	CY7C1021CV33-10BAXI	150	-65	500	80	0		
BK48CDALL	G-TAIWAN	73205	R1	CY7C1041CV33-20BAI	150	-65	500	83	0		
BK48CDALL	G-TAIWAN	MR064057	R1	CY7C1041CV33-10BAXI	150	-65	1000	48	0		
BK48CDALL	G-TAIWAN	MR064057	R1	CY7C1041CV33-10BAXI	150	-65	500	48	0		
BK48ABAALL	AIT-INDONESIA	73503	R1	CY62137CVSL-70BAXI	150	-65	500	75	0		
BK48ABAALL	AIT-INDONESIA	73503	R1	CY62137CVSL-70BAXI	150	-65	1000	75	0		
BK48ABAALL	AIT-INDONESIA	73503	R2	CY62137CVSL-70BAXI	150	-65	500	77	0		
BK48ABAALL	AIT-INDONESIA	73503	R3	CY62137CVSL-70BAXI	150	-65	500	80	0		
BK48ABAALL	AIT-INDONESIA	73503	R3	CY62137CVSL-70BAXI	150	-65	1000	80	0		
BK48BWALL	G-TAIWAN	MR073041	R1	CY7C1021CV33-10BAXI	-65	-65	1000	79	0		
BK60AAALE	G-ASE	NR072015	R1	CY7C1061AV33-10BAXI	150	-65	500	79	0		

Summary for Package Family : FBGA (0.78-0.8, Pb-free, 0.3mm) (22 records)

								Sum	1,650	0
<b>FBGA (1.0-1.27)</b>										
BB100EAALE	ASE-G	MR073001	R1	CY7B994V-2BBI	150	-65	500	80	0	
BB100EAALE	ASE-G	MR073001	R1	CY7B994V-2BBI	150	-65	1000	79	0	
BB165AAAGL	AT-INDONESIA	71207	R1	CY7C1305BV25	150	-65	500	77	0	
BB165AAAGL	AT-INDONESIA	71207	R1	CY7C1305BV25	150	-65	1000	77	0	
BB165AAAGL	AT-INDONESIA	71207	R2	CY7C1305BV25	150	-65	500	77	0	
BB165AAAGL	AT-INDONESIA	71207	R2	CY7C1305BV25	150	-65	1000	77	0	
BB165AAAGL	AT-INDONESIA	71207	R3	CY7C1305BV25	150	-65	500	76	0	
BB165AAAGL	AT-INDONESIA	71207	R3	CY7C1305BV25	150	-65	1000	75	0	
BB165ALLE	G-TAIWAN	MR071042	R1	CY7C1313BV18-250BZC	150	-65	500	76	0	
BB165ALLE	G-TAIWAN	MR071042	R1	CY7C1313BV18-250BZC	150	-65	1000	76	0	
BB256AAAGL	AT-INDONESIA	72005	R1	CYNSE70130D-125BBC	150	-65	500	80	0	
BB256AAAGL	AT-INDONESIA	72005	R1	CYNSE70130D-125BBC	150	-65	1000	80	0	
BB256AAAGL	AT-INDONESIA	72005	R2	CYNSE70130D-125BBC	150	-65	500	80	0	
BB256AAAGL	AT-INDONESIA	72005	R2	CYNSE70130D-125BBC	150	-65	1000	80	0	
BB256AAAGL	AT-INDONESIA	72005	R3	CYNSE70130D-125BBC	150	-65	500	80	0	
BB256AAAGL	AT-INDONESIA	72005	R3	CYNSE70130D-125BBC	150	-65	1000	80	0	
BB256JAGE	G-TAIWAN	63401	3	7C08544AC-GBBC	150	-65	500	48	0	
BB256JAGE	G-TAIWAN	63401	3	7C08544AC-GBBC	150	-65	1000	48	0	
BB165AVLE	CML-RA	MR074047	R1	CY7C1313BV18-250BZC	150	-65	500	80	0	
BB165AVLE	RA-CML	NR072019	R1	CY7C1313BV18-250BZC	150	-65	500	74	0	
BB165AVLE	RA-CML	NR072019	R1	CY7C1313BV18-250BZC	150	-65	1000	74	0	
BB165AVLE	RA-CML	NR072019	R2	CY7C1313BV18-250BZC	150	-65	1000	77	0	
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	150	-65	500	76	0	
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	150	-65	1000	76	0	
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	150	-65	500	77	0	
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	150	-65	1000	77	0	
FBGA 165	AIT-Indonesia	73509	R1	CY7C1305BV25	150	-65	500	70	0	
FBGA 165	AIT-Indonesia	73509	R1	CY7C1305BV25	150	-65	1000	70	0	
FBGA 165	AIT-Indonesia	73509	R2	CY7C1305BV25	150	-65	500	77	0	
FBGA 165	AIT-Indonesia	73509	R2	CY7C1305BV25	150	-65	1000	76	0	
FBGA 165	AIT-Indonesia	73509	R3	CY7C1305BV25	150	-65	500	77	0	
FBGA 165	AIT-Indonesia	73509	R3	CY7C1305BV25	150	-65	1000	77	0	
BB165AVLE	RA-CML	MR074047	R1	CY7C1313BV18-250BZC	150	-65	1000	80	0	

Summary for Package Family : FBGA (1.0) (33 records)

								Sum	2,484	0
<b>FBGA (1.0-1.27, Pb-free)</b>										
BW100EAGL	G-TAIWAN	MR071068	R1	CYV15G0101DXB-BBXI	150	-65	500	82	0	
BW100EAGL	G-TAIWAN	MR071068	R1	CYV15G0101DXB-BBXI	150	-65	1000	81	0	
BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	150	-65	500	78	0	
BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	150	-65	1000	78	0	
BW100AAALL	AIT-Indonesia	73507	R1	CYP15G0101DXB-BBXI	150	-65	500	77	0	
BW100AAALL	AIT-Indonesia	73507	R1	CYP15G0101DXB-BBXI	150	-65	1000	77	0	
BW100AAALL	AIT-Indonesia	73507	R2	CYP15G0101DXB-BBXI	150	-65	500	80	0	
BW100AAALL	AIT-Indonesia	73507	R2	CYP15G0101DXB-BBXI	150	-65	1000	80	0	
BW100AAALL	AIT-Indonesia	73507	R3	CYP15G0101DXB-BBXI	150	-65	500	78	0	
BW100AAALL	AIT-Indonesia	73507	R3	CYP15G0101DXB-BBXI	150	-65	1000	78	0	

Summary for Package Family :FBGA (1.0, Pb-free) (10 records)

								Sum	789	0
<b>VFBGA (0.75-0.8, 0.3mm)</b>										
BV48AMAAL	G-TAIWAN	MR073035	R1	CY62136CV30LL-55BVI	150	-65	500	80	0	
BV48ATALE	RA-CML	MR064069	R1	CY62157DV30LL-55BVI	150	-65	300	50	0	
BV48ATALE	RA-CML	MR064069	R1	CY62157DV30LL-55BVI	150	-65	1000	50	0	
BV48ATALE	RA-CML	MR064069	R1	CY62157DV30LL-55BVI	150	-65	500	50	0	
BV48ATALE	RA-CML	MR071072	R1	CY62157DV30LL-70BVI	150	-65	500	79	0	
BV48ATALE	RA-CML	MR071072	R1	CY62157DV30LL-70BVI	150	-65	1000	79	0	
BV48BAALE	G-TAIWAN	MR064034	R1	CY62157DV30LL-70BVI	150	-65	300	50	0	
BV48BAALE	G-TAIWAN	MR064034	R1	CY62157DV30LL-70BVI	150	-65	1000	48	0	

BV48BAALE	G-TAIWAN	MR064034	R1	CY62157DV30LL-70BVI	150	-65	500	49	0		
BV48BNALE	G-TAIWAN	63901	R1	CY62167DV30LL	150	-65	300	43	0		
BV48BNALE	G-TAIWAN	63901	R1	CY62167DV30LL	150	-65	500	43	0		
BV48BNALE	G-TAIWAN	63901	R2	CY62167DV30LL	150	-65	300	43	0		
BV48BNALE	G-TAIWAN	63901	R2	CY62167DV30LL	150	-65	500	43	0		
BV48BNALE	G-TAIWAN	63901	R3	CY62167DV30LL	150	-65	300	44	0		
BV48BNALE	G-TAIWAN	63901	R3	CY62167DV30LL	150	-65	500	44	0		
BV48BNALE	G-TAIWAN	64505	R1	CY62167DV30	150	-65	1000	43	0		
BV48BNALE	G-TAIWAN	70203	R1	CY62137DV30LL	150	-65	500	44	0		
BV48BNALE	G-TAIWAN	70203	R1	CY62137DV30LL	150	-65	1000	43	0		
BV48BNALE	G-TAIWAN	70203	R1A	CY62167DV30LL	150	-65	1000	34	0		
BV48BNALE	G-TAIWAN	70203	R2	CY62167DV30LL	150	-65	500	76	0		
BV48BNALE	G-TAIWAN	70203	R2	CY62167DV30LL	150	-65	1000	68	0		
BV48RAALE	G-TAIWAN	MR071058	R1	CY7C1011CV33-10BVI	150	-65	500	79	4	MR071058-1T1	4-Topside Crack
BV48RAALE	G-TAIWAN	MR071058	R1	CY7C1011CV33-10BVI	150	-65	1000	63	0		
BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	150	-65	1000	79	0		
BZ56GABGL	RA-CML	NR072032	R1	7C680510AC-RABZI	150	-65	1000	50	0		
BZ56IAAAGL	AT-IND	MR074053	R1	CY7C68053-56BAXIT	150	-65	1000	80	0		
<b>Summary for Package Family : VFBGA (0.75-0.8, 0.3mm) (26 records)</b>											
<b>Sum</b>								<b>1,454</b>	<b>4</b>		
<b>VFBGA (0.75-0.8, 0.3mm, Pb-free)</b>											
BZ100BAALL	G-TAIWAN	MR073064	R1	CYDM256B16-55BVXI	150	-65	500	74	0		
BZ100CGAL	G-TAIWAN	61603	R1	CYWB0124AB-BVXI	150	-65	1000	32	0		
BZ100CGAL	G-TAIWAN	61603	R1	CYWB0124AB-BVXI	150	-65	500	74	0		
BZ100CGAL	G-TAIWAN	61603	R2	CYWB0124AB-BVXI	150	-65	300	75	0		
BZ100CGAL	RA-CML	61603	R3	CYWB0124AB-BVXIES	150	-65	300	72	3	061603-3T1	3-Die Crack
BZ100CGAL	RA-CML	61603	R3	CYWB0124AB-BVXIES	150	-65	500	68	0		
BZ100CGALL	G-TAIWAN	64802	R3	CYWB0124AB-BVXIES	150	-65	300	45	0		
BZ100CGALL	G-TAIWAN	64802	R3	CYWB0124AB-BVXIES	150	-65	1000	43	0		
BZ100CGALL	G-TAIWAN	64802	R3	CYWB0124AB-BVXIES	150	-65	500	43	0		
BZ100FAAGL	AT-Indonesia	71202	R1	CYWB0124AB-BVXI	150	-65	500	77	0		
BZ100FAAGL	AT-Indonesia	71202	R2	CYWB0124AB-BVXI	150	-65	500	77	0		
BZ100FAAGL	AT-Indonesia	71202	R2	CYWB0124AB-BVXI	150	-65	1000	77	0		
BZ100FAAGL	AT-Indonesia	71202	R3	CYWB0124AB-BVXI	150	-65	500	76	0		
BZ100FAAGL	AT-Indonesia	71202	R3	CYWB0124AB-BVXI	150	-65	1000	75	0		
BZ48ABAAGL	AT-INDONESIA	65103	R1	CYK256K6C9BW-70BVXI	150	-65	300	49	0		
BZ48ABAAGL	AT-INDONESIA	65103	R1	CYK256K6C9BW-70BVXI	150	-65	1000	49	0		
BZ48ABAAGL	AT-INDONESIA	65103	R1	CYK256K6C9BW-70BVXI	150	-65	500	49	0		
BZ48ABAAGL	AT-INDONESIA	65103	R2	CYK256K6C9BW-70BVXI	150	-65	300	49	0		
BZ48ABAAGL	AT-INDONESIA	65103	R2	CYK256K6C9BW-70BVXI	150	-65	1000	49	0		
BZ48ABAAGL	AT-INDONESIA	65103	R2	CYK256K6C9BW-70BVXI	150	-65	500	49	0		
BZ48ABAAGL	AT-INDONESIA	65103	R3	CYK256K6C9BW-70BVXI	150	-65	300	45	0		
BZ48ABAAGL	AT-INDONESIA	65103	R3	CYK256K6C9BW-70BVXI	150	-65	1000	45	0		
BZ48ABAAGL	AT-INDONESIA	65103	R3	CYK256K6C9BW-70BVXI	150	-65	500	45	0		
BZ48ABAAGL	AT-INDONESIA	NR072005	R1	CYK256K16SCBU	150	-65	500	80	0		
BZ48ABAAGL	AT-INDONESIA	NR072005	R1	CYK256K16SCBU	150	-65	1000	80	0		
BZ48ABAAGL	AT-INDONESIA	NR072005	R3	CYK256K16SCBU	150	-65	500	80	0		
BZ48ABAAGL	AT-INDONESIA	NR072005	R3	CYK256K16SCBU	150	-65	1000	80	0		
BZ48ANAARL	AT-Indonesia	71902	R1	CY62157DV30LL-70BVXI	150	-65	500	78	0		
BZ48ANAARL	AT-Indonesia	71902	R1	CY62157DV30LL-70BVXI	150	-65	1000	78	0		
BZ48ANAARL	AT-Indonesia	71902	R2	CY62157DV30LL-70BVXI	150	-65	500	80	0		
BZ48ANAARL	AT-Indonesia	71902	R2	CY62157DV30LL-70BVXI	150	-65	1000	80	0		
BZ48ANAARL	AT-Indonesia	71902	R3	CY62157DV30LL-70BVXI	150	-65	500	80	0		
BZ48ANAARL	AT-Indonesia	71902	R3	CY62157DV30LL-70BVXI	150	-65	1000	78	0		
BZ48ATALL	RA-CML	MR071040	R1	CY62157DV30LL-70BVXI	150	-65	500	80	0		
BZ48ATALL	RA-CML	MR071040	R1	CY62157DV30LL-70BVXI	150	-65	1000	80	0		
BZ48BAALL	G-TAIWAN	MR071038	R1	CY62157DV30LL-70BVXI	150	-65	500	80	0		
BZ48BAALL	G-TAIWAN	MR071038	R1	CY62157DV30LL-70BVXI	150	-65	1000	80	0		
BZ48BBAALL	AT-INDONESIA	72302	R1	CY62167DV30LL-70BVXI	150	-65	500	77	0		
BZ48BBAALL	AT-INDONESIA	72302	R1	CY62167DV30LL-70BVXI	150	-65	1000	76	0		

BZ48BBAALL	AT-INDONESIA	72302	R2	CY62167DV30LL-70BVXI	150	-65	500	76	0
BZ48BBAALL	AT-INDONESIA	72302	R2	CY62167DV30LL-70BVXI	150	-65	1000	76	0
BZ48BBAALL	AT-INDONESIA	72302	R3	CY62167DV30LL-70BVXI	150	-65	500	80	0
BZ48BBAALL	AT-INDONESIA	72302	R3	CY62167DV30LL-70BVXI	150	-65	1000	80	0
BZ48BKALE	RA-CML	MR064079	R1	CYK256K16MCBU-70BVXI	150	-65	300	47	0
BZ48BKALE	RA-CML	MR064079	R1	CYK256K16MCBU-70BVXI	150	-65	1000	46	0
BZ48BKALE	RA-CML	MR064079	R1	CYK256K16MCBU-70BVXI	150	-65	500	47	0
BZ48BKBLE	RA-CML	64604	R1	CYK128K16MCBU-70BVXI	150	-65	300	50	0
BZ48BKBLE	RA-CML	64604	R1	CYK128K16MCBU-70BVXI	150	-65	1000	50	0
BZ48BKBLE	RA-CML	64604	R2	CYK128K16MCBU-70BVXI	150	-65	1000	50	0
BZ48BKBLE	RA-CML	64604	R3	CYK128K16MCBU-70BVXI	150	-65	1000	49	0
BZ48CHAALL	ASE-G	MR073005	r1	CY62126EV30LL-45BVXI	150	-65	500	77	0
BZ48CHAALL	ASE-G	MR073005	r1	CY62126EV30LL-45BVXI	150	-65	1000	77	0
BZ48CRALL	G-TAIWAN	71302	R1	CY62167EV30	150	-65	300	50	0
BZ48CRALL	G-TAIWAN	71302	R1	CY62167EV30	150	-65	1000	50	0
BZ48CRALL	G-TAIWAN	71302	R1	CY62167EV30	150	-65	500	50	0
BZ48CRALL	G-TAIWAN	71302	R2	CY62167EV30	150	-65	300	50	0
BZ48CRALL	G-TAIWAN	71302	R2	CY62167EV30	150	-65	500	50	0
BZ48CRALL	G-TAIWAN	71302	R2A	CY62167EV30	150	-65	300	50	0
BZ48CRALL	G-TAIWAN	71405	R1	CY62167EV30	150	-65	300	50	0
BZ48CRALL	G-TAIWAN	71405	R1	CY62167EV30	150	-65	1000	50	0
BZ48CRALL	G-TAIWAN	71405	R1	CY62167EV30	150	-65	500	50	0
BZ48CRALL	G-TAIWAN	71405	R2	CY62167EV30	150	-65	300	50	0
BZ48CRALL	G-TAIWAN	71405	R2	CY62167EV30	150	-65	500	50	0
BZ48CRALL	G-TAIWAN	71405	R3	CY62167EV30	150	-65	500	35	0
BZ48CRALL	G-TAIWAN	71405	R3	CY62167EV30	150	-65	1000	35	0
BZ48CRALL	G-TAIWAN	71405	R3A	CY62167EV30	150	-65	300	50	0
BZ56AGAGL	G-TAIWAN	MR064027	R1	CY7C68013A-56BAXC	150	-65	1000	50	0
BZ56AGAGL	G-TAIWAN	MR064027	R1	CY7C68013A-56BAXC	150	-65	500	50	0
BZ56AGAGL	G-TAIWAN	MR072018	R1	CY7C68013A-56BAXC	150	-65	500	80	0
BZ56AGAGL	G-TAIWAN	MR072018	R1	CY7C68013A-56BAXC	150	-65	1000	80	0
BZ56FAALE	G-TAIWAN	65201	R1A	CY7C68053-56BAXI	150	-65	500	50	0
BZ56FAALE	G-TAIWAN	65201	R1A	CY7C68053-56BAXI	150	-65	1000	50	0
BZ56FAALE	G-TAIWAN	65201	R2	CY7C68053-56BAXI	150	-65	500	50	0
BZ56FAALE	G-TAIWAN	65201	R2	CY7C68053-56BAXI	150	-65	1000	50	0
BZ56FAALE	ASE-T	65201	R3	CY7V680510-56BGA	150	-65	300	50	0
BZ56FAALE	G-TAIWAN	MR064025	R1	CY7C68053-56BAXIES	150	-65	300	50	0
BZ56FAALE	G-TAIWAN	MR064025	R1	CY7C68053-56BAXIES	150	-65	1000	50	0
BZ56FAALE	G-TAIWAN	MR064025	R1	CY7C68053-56BAXIES	150	-65	500	50	0
BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	150	-65	500	79	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	150	-65	500	80	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	150	-65	1000	80	0
BZ56FAALE	ASE-T	65201	R3	CY7V680510-56BGA	150	-65	1000	50	0
BZ56GABGL	RA-CML	NR072032	R1	NA	150	-65	500	50	0
BZ56IAAAGL	AT-TAIWAN	MR074053	R1	CY7C68053-56BAXIT	150	-65	500	80	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	150	-65	500	80	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	150	-65	1000	80	0
BZ56IAAAGL	AIT-Indonesia	NR072003	R2	CY7C68053-56BAXI	150	-65	500	80	0
BZ56IAAAGL	AIT-Indonesia	NR072003	R2	CY7C68053-56BAXI	150	-65	1000	79	0

Summary for Package Family : VFBGA (0.75-0.8, 0.3mm, Pb-free) (89 records)

Sum 5,477 3

Windowed PGA

GB85ABAAAA

Summary for Package Family : Windowed PGA (Pb-free) (0 record)

Sum 0 0

PBGA (1.27)

BG119JALE	G-TAIWAN	NR064006	R1	CY7C1012AV33-8BGC	150	-65	300	50	0
BG119JALE	G-TAIWAN	NR064006	R1	CY7C1012AV33-8BGC	150	-65	1000	50	0
BG119JALE	G-TAIWAN	NR064006	R1	CY7C1012AV33-8BGC	150	-65	500	50	0
BG119JALE	G-TAIWAN	NR064006	R2	CY7C1062AV25-10BGI	150	-65	500	80	0

BG119JALE	G-TAIWAN	NR064006	R2	CY7C1062AV25-10BGI	150	-65	1000	79	0
BG119JALE	G-TAIWAN	NR064006	R3	7C1012AC-GBGCB	150	-65	500	80	0
BG119JALE	G-TAIWAN	NR064006	R3	7C1012AC-GBGCB	150	-65	1000	80	0
BG119QALE	G-TAIWAN	MR071066	R1	CY7C1325G-133BGC	150	-65	500	79	0
BG119QALE	G-TAIWAN	MR071066	R1	CY7C1325G-133BGC	150	-65	1000	79	0
BG119SALE	G-TAIWAN	MR064046	R1	CY7C1354CV25-166BGC	150	-65	1000	50	0
BG119SALE	G-TAIWAN	MR064046	R1	CY7C1354CV25-166BGC	150	-65	500	50	0
BG119SALE	G-TAIWAN	MR073002	R1	CY7C1354C-166BGC	150	-65	500	80	0
BG119SALE	G-TAIWAN	MR073002	R1	CY7C1354C-166BGC	150	-65	1000	80	0
BG119ABALE	AT - Indonesia	73702	R1	CY7C1012SV33	150	-65	500	80	0
BG119ABALE	AT - Indonesia	73702	R1	CY7C1012SV33	150	-65	1000	80	0
BG119ABALE	AT - Indonesia	73702	R2	CY7C1012SV33	150	-65	500	80	0
BG119ABALE	AT - Indonesia	73702	R2	CY7C1012SV33	150	-65	1000	78	0
BG119ABALE	AT - Indonesia	73702	R3	CY7C1012AV33	150	-65	500	80	0
BG119ABALE	AT - Indonesia	73702	R3	CY7C1012AV33	150	-65	1000	80	0
<b>Summary for Package Family : PBGA (1.27) (20 records)</b>									
<b>Sum</b>								<b>1,365</b>	<b>0</b>
<b>PBGA (1.27, Pb-free)</b>									
BY119QALL	G-TAIWAN	NR072001	R2	CY7C1347G-133BGXC	150	-65	500	80	0
BY119QALL	G-TAIWAN	NR072001	R2	CY7C1347G-133BGXC	150	-65	1000	80	0
BY119QALL	G-TAIWAN	NR072001	R3	CY7C347G-133BGXC	150	-65	500	80	0
BY119QALL	G-TAIWAN	NR072001	R3	CY7C347G-133BGXC	150	-65	1000	80	0
<b>Summary for Package Family : PBGA (1.27, Pb-free) (4 records)</b>									
<b>Sum</b>								<b>320</b>	<b>0</b>
<b>PBGA (Cavity/Heatsink)</b>									
BL256L2GE									
<b>Summary for Package Family : PBGA (Cavity/Heatsink) (0 record)</b>									
<b>Sum</b>								<b>0</b>	<b>0</b>
<b>PBGA (Cavity/Heatsink, Pb-free)</b>									
BJ256L2GL	G-TAIWAN	NR072002	R1	CYP15G0401DXB-BGXI	150	-65	500	80	0
BJ256L2GL	G-TAIWAN	NR072002	R1	CYP15G0401DXB-BGXI	150	-65	1000	80	0
BJ256L2GL	G-TAIWAN	NR072002	R2	CYV15G0401DXB-BGXC	150	-65	500	78	0
BJ256L2GL	G-TAIWAN	NR072002	R2	CYV15G0401DXB-BGXC	150	-65	1000	78	0
<b>Summary for Package Family : PBGA (Cavity/Heatsink, Pb-free) (4 records)</b>									
<b>Sum</b>								<b>316</b>	<b>0</b>
<b>PDIP</b>									
P2839GAAGB	X-THAILAND	65102	R1	CY7C460A-PTC	150	-65	300	50	0
P2839GAAGB	X-THAILAND	65102	R1	CY7C460A-PTC	150	-65	1000	50	0
P2839GAAGB	X-THAILAND	65102	R1	CY7C460A-PTC	150	-65	500	50	0
P2839GAAGB	X-THAILAND	65102	R2	CY7C460A-PTC	150	-65	300	50	0
P2839GAAGB	X-THAILAND	65102	R2	CY7C460A-PTC	150	-65	1000	49	0
P2839GAAGB	X-THAILAND	65102	R2	CY7C460A-PTC	150	-65	500	50	0
P2839GAAGB	X-THAILAND	65102	R3	CY7C460A-PTC	150	-65	300	50	0
P2839GAAGB	X-THAILAND	65102	R3	CY7C460A-PTC	150	-65	1000	50	0
P2839GAAGB	X-THAILAND	65102	R3	CY7C460A-PTC	150	-65	500	50	0
P2839GAAGB	X-THAILAND	MR064054	R1	CY7C185-25PC	150	-65	1000	49	0
P2839GAAGB	X-THAILAND	MR071039	R1	CY7C185-25PC	150	-65	300	80	0
P2839GAAGB	X-THAILAND	MR071039	R1	CY7C185-25PC	150	-65	1000	80	0
P2839GAAGB	X-THAILAND	MR071039	R1	CY7C185-25PC	150	-65	500	80	0
<b>Summary for Package Family : PDIP (14 records)</b>									
<b>Sum</b>								<b>738</b>	<b>0</b>
<b>PDIP (Pb-free)</b>									
PZ183AXGN	O-INDONESIA	65001	R1	CY7C63813-PXC	150	-65	300	46	0
PZ183AXGN	O-INDONESIA	65001	R1	CY7C63813-PXC	150	-65	500	44	0
PZ183AXGN	O-INDONESIA	65001	R2	CY7C63813-PXC	150	-65	300	46	0
PZ183AXGN	O-INDONESIA	65001	R2	CY7C63813-PXC	150	-65	500	46	0
PZ183AXGN	O-INDONESIA	65001	R2	CY7C63813-PXC	150	-65	1000	46	0
PZ183AXGN	O-INDONESIA	65001	R3	CY7C63813-PXC	150	-65	300	46	0
PZ183AXGN	O-INDONESIA	65001	R3	CY7C63813-PXC	150	-65	500	46	0
PZ183AXGN	O-INDONESIA	70501	R1	CS6632AF	150	-65	500	77	0



PZ183AXGN	O-INDONESIA	70501	R2	CS6632AF	150	-65	500	76	0
PZ183AXGN	O-INDONESIA	70501	R3	CS6632AF	150	-65	500	77	0
PZ183DAGN	RA-CML	MR071044	R1	CY7C63723C-PXC	150	-65	1000	80	0
PZ183DAGN	RA-CML	MR071044	R1	CY7C63723C-PXC	150	-65	500	80	0
PZ183DAGN	RA-CML	MR072027	R1	CY7C63723C-PXC	150	-65	500	79	0
PZ183DAGN	RA-CML	MR072027	R1	CY7C63723C-PXC	150	-65	1000	79	0
PZ183DAGN	RA-CML	MR073050	R1	CY7C63723C-PXC	150	-65	500	80	0
PZ203CHAN	O-INDONESIA	MR072035	R1	CY8C26233-24PXI	150	-65	500	80	0
PZ203CHAN	O-INDONESIA	MR072035	R1	CY8C26233-24PXI	150	-65	1000	80	0
PZ183AXGN	O-IND	MR074015	R1	CS6632AF	150	-65	500	77	0

**Summary for Package Family : PDIP (Pb-free) (18 records)**

**Sum** **1,185** **0**

**PLCC**

J32RBGAAGB	X-INDS	MR073044	R1	CY7B992-5JIT	150	-65	500	80	0
J32RBGAGB	M-PHIL	MR071007	R1	CY7B991-5JC	150	-65	500	80	0
J32RBGAGB	M-PHIL	MR071007	R1	CY7B991-5JC	150	-65	1000	79	0
J32RFGAGB	M-PHIL	64205	R1	CY7C466A	150	-65	500	43	0
J52SFGAGB	M-PHILS	MR073009	R1	CY7C136-55JC	150	-65	500	78	0
J52SFGAGB	M-PHILS	MR073009	R1	CY7C136-55JC	150	-65	1000	78	0
J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-5JC	150	-65	500	80	0
J32RBGAGB	X-THAI	MR034024	R1	CY7B991-5JC	150	-65	300	50	0

**Summary for Package Family : PLCC (8 records)**

**Sum** **568** **0**

**PLCC (Pb-free)**

JZ32RBGAN	M-PHIL	71206	R1	CY7B991V-JZ	150	-65	300	77	0
JZ32RBGAN	M-PHIL	71206	R1	CY7B991V-JZ	150	-65	500	77	0
JZ32RBGAN	M-PHIL	71206	R1	CY7B991V-JZ	150	-65	1000	77	0
JZ32RBGAN	M-PHIL	MR071067	R1	CY7C4231-15JXC	150	-65	500	80	0
JZ32RBGAN	M-PHIL	MR071067	R1	CY7C4231-15JXC	150	-65	1000	79	0
JZ32RBGAN	M-PHILS	MR073043	R1	CY7C4241-15JXC	150	-65	500	79	0
JZ32RBGAN	M-PHILS	MR073043	R1	CY7C4241-15JXC	150	-65	1000	79	0
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	150	-65	500	80	0
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	150	-65	1000	80	0
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	150	-65	500	80	0
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	150	-65	1000	80	0

**Summary for Package Family : PLCC (Pb-free) (11 records)**

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

**PQFP (Pb-free)**

NZ52DXGAN	G-TAIWAN	MR064048	R1	CY7C136-25NXC	150	-65	1000	50	0
NZ52DXGAN	G-TAIWAN	MR071073	R1	CY7C136-55NXCT	150	-65	500	80	0
NZ52DXGAN	G-TAIWAN	MR071073	R1	CY7C136-55NXCT	150	-65	1000	80	0
NZ52DXGAN	G-TAIWAN	MR073059	R1	CY7C131-55NXC	150	-65	500	79	0
NZ52DXGAN	G-TAIWAN	NR072014	R1	CY7C136-25NXC	150	-65	500	80	0
NZ52DXGAN	G-TAIWAN	NR072014	R1	CY7C136-25NXC	150	-65	1000	80	0
NZ52DXGAN	G-TAIWAN	NR072014	R2	CY7C131-55NXC	150	-65	500	80	0
NZ52DXGAN	G-TAIWAN	NR072014	R2	CY7C131-55NXC	150	-65	1000	80	0
NZ52DXGAN	G-TAIWAN	NR072014	R3	7C136GT-GNZC	150	-65	500	80	0
NZ52DXGAN	G-TAIWAN	NR072014	R3	7C136GT-GNZC	150	-65	1000	80	0
NZ52DXGAN	G-TAIWAN	NR072014	R4	CY7C136-25NXC	150	-65	500	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R4	CY7C136-25NXC	150	-65	1000	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R5	CY7C131-55NXC	150	-65	500	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R5	CY7C131-55NXC	150	-65	1000	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R6	CY7C136-25NXC	150	-65	500	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R6	CY7C136-25NXC	150	-65	1000	15	0
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	150	-65	500	80	0
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	150	-65	1000	80	0
NZ52DXGAN	G-TAIWAN	NR072014	R10	CY7C136-55NXC	150	-65	1000	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R11	CY7C136-25NXC	150	-65	500	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R12	CY7C136-55NXC	150	-65	500	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R13	CY7C136-55NXC	150	-65	500	15	0

NZ52DXGAN	G-TAIWAN	NR072014	R8	CY7C136-25NXC	150	-65	1000	15	0
NZ52DXGAN	G-TAIWAN	NR072014	R9	CY7C136-55NXC	150	-65	1000	13	0

**Summary for Package Family : PQFP (Pb-free) (25 records)**

<b>Sum</b>									<b>1,107</b>	<b>0</b>
<b>QFN (COL, Saw Type, Pb-Free)</b>										

LG16AAAAAL	M-PHIL	NR072026	R4	CY8C20234-12LXIT	150	-65	100	15	0
LG16AAAAAL	M-PHIL	NR072026	R4	CY8C20234-12LXIT	150	-65	300	15	0
LG16AAAAAL	M-PHIL	NR072026	R4	CY8C20234-12LXIT	150	-65	500	15	0
LG16AAAAAL	M-PHIL	NR072026	R4	CY8C20234-12LXIT	150	-65	1000	15	0
LG16AAAAAL	M-PHIL	NR072026	R5	CY8C20234-12LXIT	150	-65	100	15	0
LG16AAAAAL	M-PHIL	NR072026	R5	CY8C20234-12LXIT	150	-65	300	15	0
LG16AAAAAL	M-PHIL	NR072026	R5	CY8C20234-12LXIT	150	-65	500	15	0
LG16AAAAAL	M-PHIL	NR072026	R5	CY8C20234-12LXIT	150	-65	1000	15	0
LG16AAAAAL	M-PHIL	NR072026	R6	CY8C20234-12LXIT	150	-65	100	15	0
LG16AAAAAL	M-PHIL	NR072026	R6	CY8C20234-12LXIT	150	-65	300	15	0
LG16AAAAAL	M-PHIL	NR072026	R6	CY8C20234-12LXIT	150	-65	500	15	0
LG16AAAAAL	M-PHIL	NR072026	R6	CY8C20234-12LXIT	150	-65	1000	15	0
LG16AAAAAL	M-PHIL	NR072026	R7	CY8C20234-12LXIT	150	-65	100	15	0
LG16AAAAAL	M-PHIL	NR072026	R7	CY8C20234-12LXIT	150	-65	300	15	0
LG16AAAAAL	M-PHIL	NR072026	R7	CY8C20234-12LXIT	150	-65	500	15	0
LG16AAAAAL	M-PHIL	NR072026	R7	CY8C20234-12LXIT	150	-65	1000	15	0
LG16AAAAAL	M-PHIL	NR072026	R8	CY8C20234-12LXIT	150	-65	100	15	0
LG16AAAAAL	M-PHIL	NR072026	R8	CY8C20234-12LXIT	150	-65	300	15	0
LG16AAAAAL	M-PHIL	NR072026	R8	CY8C20234-12LXIT	150	-65	500	15	0
LG16AAAAAL	M-PHIL	NR072026	R8	CY8C20234-12LXIT	150	-65	1000	15	0
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	150	-65	500	80	0
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	150	-65	1000	73	0

**Summary for Package Family : QFN (COL, Saw Type, Pb-free) (22 records)**

<b>Sum</b>									<b>453</b>	<b>0</b>
<b>QFN (Punch Type, Pb-free)</b>										

LY16AGAGL	L-Seoul	71003	R1	CYV15G0101EQ	150	-65	500	80	0
LY16AGAGL	L-Seoul	71003	R1	CYV15G0101EQ	150	-65	1000	80	0
LY16AGAGL	L-Seoul	71003	R2	CYV15G0101EQ	150	-65	500	80	0
LY16AGAGL	L-Seoul	71003	R2	CYV15G0101EQ	150	-65	1000	80	0
LY24BGAGL	Amkor Korea	72401	R1	CY2546CES	150	-65	500	84	0
LY24BGAGL	Amkor Korea	72401	R2	CY2546C	150	-65	500	80	0
LY32AGAGL	L-KOREA	MR071008	R1	CY8C21434-24LFXI	150	-65	500	80	0
LY32AGAGL	L-KOREA	MR071008	R1	CY8C21434-24LFXI	150	-65	1000	80	0
LY32AGAGL	L-KOREA	MR072001	R1	CG6672AMT	150	-65	500	80	0
LY32AGAGL	L-KOREA	MR072001	R1	CG6672AMT	150	-65	1000	78	0
LY32AGAGL	L-KOREA	NR072004	R1	CP6631AM	150	-65	500	80	0
LY32AGAGL	L-KOREA	NR072004	R1	CP6631AM	150	-65	1000	80	0
LY32AGAGL	L-KOREA	NR072004	R2	CP6621AM	150	-65	500	77	0
LY32AGAGL	L-KOREA	NR072004	R2	CP6621AM	150	-65	1000	77	0
LY32AGAGL	L-KOREA	NR072004	R3	CS6624AA	150	-65	500	80	0
LY32AGAGL	L-KOREA	NR072004	R3	CS6624AA	150	-65	1000	80	0
LY40CGAGR	L-KOREA	62301	1B	7B69103AC-LLYC	150	-65	1000	50	0
LY40CGAGR	L-KOREA	62301	1C	7B69213AC-LLYC	150	-65	1000	49	0
LY56AGAGL	L-KOREA	MR071035	R1	CY7C65630-56LFXC	150	-65	500	79	0
LY56AGAGL	L-KOREA	MR071035	R1	CY7C65630-56LFXC	150	-65	1000	79	0
LY56AGAGL	L-KOREA	MR072019	R1	CY7C62640A-LFXC	150	-65	500	72	0
LY56AGAGL	L-KOREA	MR072019	R1	CY7C62640A-LFXC	150	-65	1000	72	0
LY56DGAGL	L-KOREA	MR064006	R1	CY8C24794-24LFXI	150	-65	1000	50	0
LY56DGAGL	L-KOREA	MR064098	R3	CY8C24794-24LFXI	150	-65	1000	100	0
LY56DGAGL	L-KOREA	MR064098	R3	CY8C24794-24LFXI	150	-65	500	100	0
LY68AGAAGL	L-KOREA	NR064004	R1	8C24995AK-LLYI	150	-65	300	50	0
LY68AGAAGL	L-KOREA	NR064004	R1	8C24995AK-LLYI	150	-65	1000	50	0
LY68AGAAGL	L-KOREA	NR064004	R1	8C24995AK-LLYI	150	-65	500	50	0
LY68AGAAGL	L-KOREA	NR064004	R2	CY8C24994-24LFXIT	150	-65	300	50	0
LY68AGAAGL	L-KOREA	NR064004	R2	CY8C24994-24LFXIT	150	-65	1000	48	0

LY68AGAAGL	L-KOREA	NR064004	R2	CY8C24994-24LFXIT	150	-65	500	48	0
LY68AGAAGL	L-KOREA	NR064004	R3	8C24994AT-LLYI	150	-65	500	80	0
LY68AGAAGL	L-KOREA	NR064004	R3	8C24994AT-LLYI	150	-65	1000	80	0
LY68AGABGL	L-KOREA	MR071076	R1	CY8C24994-24LFXI	150	-65	500	90	0
LY68AGABGL	L-KOREA	MR071076	R1	CY8C24994-24LFXI	150	-65	1000	90	0
LY68AGABGL	L-KOREA	MR072043	R1A	CS6656AAT	150	-65	500	93	0
LY68AGABGL	L-KOREA	MR072043	R1A	CS6656AAT	150	-65	1000	93	0
LY68AGABGL	L-Seoul	MR072044	R1	CS6656AAT	150	-65	1000	99	0
LY72AGAGL	L-KOREA	MR072006	R1	CY28447LFXC	150	-65	1000	78	0
LY24BGAGL	L-KOREA	72401	R3	CY2547C	150	-65	500	79	0
LY24BGAGL	L-KOREA	72401	R3	CY2547C	150	-65	1000	79	0
LY56AGAGL	L-KOREA	70901	R1	CY7C65630-56LFXC	150	-65	1000	85	0
LY56AGAGL	L-KOREA	70901	R2	CY7C65630-56LFXC	150	-65	1000	85	0
LY56AGAGL	L-KOREA	70901	R3	CY7C65630-56LFXC	150	-65	1000X	80	0
LY56AGAGL	L-KOREA	MR073056	R1	CY7C65630-56LFCT	150	-65	1000	24	0
LY56AGAGL	L-KOREA	MR073056	R1	CY7C65630-56LFCT	150	-65		56	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	150	-65	500	80	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	150	-65	1000	80	0

Summary for Package Family : QFN (Punch Type, Pb-free) (48 records)

Sum 3,574 0

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

LK321GAGL	RA-CML	MR073063	R1	8C214345AK-RALKI	150	-65	500	77	0
LK321GAGL	RA-CML	MR071010	R1	CS6655AA	150	-65	500	80	0
LK321GAGL	RA-CML	MR071010	R1	CS6655AA	150	-65	1000	75	0
LK321GAGL	RA-CML	MR072041	R1	CS6655AAT	150	-65	500	59	0
LK321GAGL	RA-CML	MR072041	R1	CS6655AAT	150	-65	1000	59	0
LK321GAGL	RA-CML	NR063003	R1	CY8C21434-24LKXI	150	-65	1000	45	0
LK321GAGL	RA-CML	NR063003	R2	CY8C21434-24LKXI	150	-65	1000	46	0
LK321GAGL	RA-CML	NR063003	R3	CY8C21434-24LKXI	150	-65	1000	44	0
LK32AABAGL	L-SEOUL	MR074006	R1	CY8C20434-12LKXI	150	-65	500	77	0
LK32AABAGL	L-SEOUL	MR074006	R1	CY8C20434-12LKXI	150	-65	1000	76	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	150	-65	500	80	0
LK321GAGL	RA-CML	MR074024	R1	CP6745AMT	150	-65	500	78	0
LK321GAGL	RA-CML	MR074024	R1	CP6745AMT	150	-65	1000	77	0

Summary for Package Family : QFN (Punch Type, 0.6mm, Pb-free) (13 records)

Sum 873 0

QFN (Saw Type, Pb-Free)

LT68AAAAGL	AIT-Indonesia	72603	R1	CY8C24494A-24LKXI	150	-65	500	76	0
LT68AAAAGL	AIT-Indonesia	72603	R1	CY8C24494A-24LKXI	150	-65	1000	76	0
LT68AAAAGL	AIT-Indonesia	72603	R2	CY8C24994A-24LKXI	150	-65	500	77	0
LT68AAAAGL	AIT-Indonesia	72603	R2	CY8C24994A-24LKXI	150	-65	1000	77	0
LT68AAAAGL	AIT-Indonesia	72603	R3	CY8C24994-24LKXI	150	-65	500	77	0
LT68AAAAGL	AIT-Indonesia	72603	R3	CY8C24994-24LKXI	150	-65	1000	77	0
LT32BAAAAGL	CA-MALAYSIA	74701	R1	CY8C21434-24LTXI	150	-65	500	80	0
LT32BAAAAGL	CA-MALAYSIA	74701	R2	CY8C21434-24LTXI	150	-65	500	80	0
LT32BAAAAGL	CA-MALAYSIA	74701	R3	CY8C21434-24LTXI	150	-65	500	80	0
LT56BAAAAGL	AIT-Indonesia	73701	R1	CY7C65640A-LSXC	150	-65	500	77	0
LT56BAAAAGL	AIT-Indonesia	73701	R1	CY7C65640A-LSXC	150	-65	1000	77	0
LT56BAAAAGL	AIT-Indonesia	73701	R2	CY7C65640A-LSXC	150	-65	500	76	0
LT56BAAAAGL	AIT-Indonesia	73701	R2	CY7C65640A-LSXC	150	-65	1000	76	0
LT56BAAAAGL	AIT-Indonesia	73701	R3	CY7C65640A-LSXC	150	-65	500	77	0
LT56BAAAAGL	AIT-Indonesia	73701	R3	CY7C65640A-LSXC	150	-65	1000	77	0

Summary for Package Family : QFN (Saw Type, Pb-free) (15 records)

Sum 1,160 0

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

LQ32BAAAAGL	AT-Indonesia	70307	R1	CY8C21434A	150	-65	300	77	0
LQ32BAAAAGL	AT-Indonesia	70307	R1	CY8C21434A	150	-65	1000	72	0
LQ32BAAAAGL	AT-Indonesia	70307	R1	CY8C21434A	150	-65	500	72	0
LQ32BAAAAGL	AT-Indonesia	70307	R2	CY8C21434A	150	-65	300	76	0
LQ32BAAAAGL	AT-Indonesia	70307	R2	CY8C21434A	150	-65	1000	73	0

LQ32BAAAAGL	AIT-INDONESIA	71706	R9	CY8C21434A	150	-65	300	76	0
LQ32BAAAAGL	AIT-INDONESIA	71706	R9	CY8C21434A	150	-65	1000	73	0
LQ32BAAAAGL	AT-Indonesia	70307	R3	CY8C21434A	150	-65	300	74	0
LQ32BAAAAGL	AT-Indonesia	70307	R3	CY8C21434A	150	-65	1000	74	0
LQ32BAAAAGL	AT-Indonesia	70307	R3	CY8C21434A	150	-65	500	74	0
LQ32BAAAAGL	AIT-INDONESIA	71706	R10	CY8C21434A	150	-65	300	74	0
LQ32BAAAAGL	AIT-INDONESIA	71706	R10	CY8C21434A	150	-65	1000	74	0
LQ32BAAAAGL	AIT-INDONESIA	71706	R10	CY8C21434A	150	-65	500	74	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R1	CY8C21434A-24LQXI	150	-65	100	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R1	CY8C21434A-24LQXI	150	-65	300	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R1	CY8C21434A-24LQXI	150	-65	500	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R1	CY8C21434A-24LQXI	150	-65	1000	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R2	CY8C21434-24LQXI	150	-65	1000	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R2	CY8C21434-24LQXI	150	-65	100	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R2	CY8C21434-24LQXI	150	-65	300	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R2	CY8C21434-24LQXI	150	-65	500	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R3	CY8C21434-24LQXI	150	-65	100	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R3	CY8C21434-24LQXI	150	-65	300	77	0
LQ32CAAAAL	CARSEM MALAYSIA	72202	R3	CY8C21434-24LQXI	150	-65	500	77	0
LQ24ABAAL	AT-IND	MR074008	R1	CP6705ATT	150	-65	500	80	0
LQ24ABAAL	AT-IND	MR074008	R1	CP6705ATT	150	-65	1000	80	0
LQ24ACAAL	AIT-Indonesia	72103	R1	CY7C68003-24LQXIEST	150	-65	500	76	0
LQ24ACAAL	AIT-Indonesia	72103	R1	CY7C68003-24LQXIEST	150	-65	1000	74	0
LQ24ACAAL	AIT-Indonesia	72804	R1	CY7C68003-24LQXIEST	150	-65	500	76	0
LQ24ACAAL	AIT-Indonesia	72804	R1	CY7C68003-24LQXIEST	150	-65	1000	74	0
LQ24ACAAL	AIT-Indonesia	72804	R2	CY7C68003-24LQXIEST	150	-65	500	78	0
LQ24ACALL	AIT-Indonesia	72804	R3	CY7C68003-24LQXI	150	-65	500	79	0
LQ32CCAAL	Carsem Malaysia	72908	R1	CY8C21434-24LQXI	150	-65	1000	77	0
LQ32CCAAL	Carsem Malaysia	72908	R2	CY8C21434-24LQXI	150	-65	1000	75	0
LQ32CCAAL	Carsem Malaysia	72908	R3	CY8C21434-24LQXI	150	-65	1000	77	0
LQ24ABAAL	AT-INDONESIA	NR073002	R1	CP6705ATT	150	-65	1000	79	0
LQ24ABAAL	AT-INDONESIA	NR073002	R2	CP6705ATT	150	-65	1000	80	0
LQ24ACAAL	AIT-Indonesia	72804	R2	CY7C68003-24LQXIEST	150	-65	1000	78	0
LQ24ACAAL	AIT-Indonesia	72804	R3	CY7C68003-24LQXI	150	-65	1000	79	0

Summary for Package Family : QFN (Saw Type, 0.6mm, Pb-free) (39 records)

Sum 2,972 0

QSOP (Pb-free)

SQ2414AGN	R-CML	MR064015	R1	CY7C63823-QXC	150	-65	1000	46	0
SQ2414AGN	R-CML	MR064015	R1	CY7C63823-QXC	150	-65	500	47	0
SQ2414AGN	R-CML	MR072005	R1	CY7C63743C-QXC	150	-65	500	80	0
SQ2414AGN	R-CML	MR072005	R1	CY7C63743C-QXC	150	-65	1000	80	0
SQ2414AGN	R-CML	MR073054	R1	CY7C63823-QXC	150	-65	500	80	0
SQ2012AGN	R-CML	MR074050	R1	CY24745OXC	150	-65	500	78	0
SQ2414AGN	R-CML	MR073054	R1	CY7C63823-QXC	150	-65	1000	80	0
SQ2012AGN	R-CML	MR074050	R1	CY24745OXC	150	-65	1000	78	0

Summary for Package Family : QSOP (Pb-free) (8 records)

Sum 569 0

SN2831AHN	R-CML	MR064056	R1	CY6264-70SNI	150	-65	1000	50	0
-----------	-------	----------	----	--------------	-----	-----	------	----	---

Summary for Package Family : SNC (1 record)

Sum 50 0

SNC (Pb-free)

SY2831AHN	R-CML	MR064042	R1	CY6264-70SNXI	150	-65	1000	50	0
-----------	-------	----------	----	---------------	-----	-----	------	----	---

SY2831BLN	R-CML	MR073014	R1	CY62256NLL-70SNXC	150	-65	500	79	0
SY2831BLN	R-CML	MR073014	R1	CY62256NLL-70SNXC	150	-65	1000	79	0
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	150	-65	500	80	0
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	150	-65	1000	78	0

**Summary for Package Family : SNC (Pb-free) (5 records)**

**Sum** **366** **0**

S0815DAGB	M-PHIL	MR064060	R1	CY2907SL-220	150	-65	1000	49	0
S1615DAGB	M-PHILS	MR073038	R1	CY2292SI-705T	150	-65	500	80	0
S1615DAGB	M-PHILS	MR073038	R1	CY2292SI-705T	150	-65	1000	80	0
S1615KAGN	RA-CML	AR0714024	R1	CY23S09SC-1HT	150	-65	500	17	0
S1615KAGN	RA-CML	AR0714024	R1	CY23S09SC-1HT	150	-65	1000	17	0
S1615KAGN	RA-CML	AR0721029	R1	CY2308SC-1T	150	-65	500	19	0
S1615KAGN	RA-CML	AR0721029	R1	CY2308SC-1T	150	-65	1000	19	0
S1615KAGN	RA-CML	AR0725032	R1	CY2309SI-1T	150	-65	500	20	0
S1615KAGN	RA-CML	AR0725032	R1	CY2309SI-1T	150	-65	1000	20	0
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	150	-65	2000	48	0
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	150	-65	2500	48	0
S1615KAGN	RA-CML	MR071055	R1	CY2309SC-1H	150	-65	500	79	0
S1615KAGN	RA-CML	MR071055	R1	CY2309SC-1H	150	-65	1000	79	0
S1615KAGN	R-CML	MR073015	R1	CY2309NZSC-1H	150	-65	500	77	3
S1615KAGN	R-CML	MR073015	R1	CY2309NZSC-1H	150	-65	1000	74	0
S0815BAAGB	O-TAIWAN	MR074054	R1	CY2304SI-1T	150	-65	1000	77	0
S0815KAGB	M-Phils	MR074062	R1	CY2302SC-1T	150	-65	1000	79	0

MR073015-1T1 3-Die Crack

**Summary for Package Family : SOIC (17 records)**

**Sum** **882** **3**

SZ1615DGN	M-PHILS	MR073039	R1	CY2292FXC	150	-65	500	80	0
SZ1615DGN	M-PHILS	MR073039	R1	CY2292FXC	150	-65	1000	80	0
SZ1615FAL	T-TAIWAN	70504	R1A	CYV15G0102EQ-SXCES	150	-65	300	77	0
SZ1615FAL	T-TAIWAN	70504	R1A	CYV15G0102EQ-SXCES	150	-65	1000	77	0
SZ1615FAL	T-TAIWAN	70504	R1A	CYV15G0102EQ-SXCES	150	-65	500	77	0
SZ1615FAL	T-TAIWAN	71603	R3A	CYV15G0101EQ-SXC	150	-65	500	77	0
SZ1615FAL	T-TAIWAN	71603	R3A	CYV15G0101EQ-SXC	150	-65	1000	77	0
SZ1615KGN	RA-CML	AR0708029	R1	CY8C21234-24SXI	150	-65	500	12	0
SZ1615KGN	RA-CML	AR0708029	R1	CY8C21234-24SXI	150	-65	1000	12	0
SZ1615KGN	RA-CML	AR0711016	R1	CY2309NZSXC-1HT	150	-65	500	17	0
SZ1615KGN	RA-CML	AR0711016	R1	CY2309NZSXC-1HT	150	-65	1000	17	0
SZ1615KGN	RA-CML	AR0711031	R1	CY2292FXC	150	-65	500	20	0
SZ1615KGN	RA-CML	AR0711031	R1	CY2292FXC	150	-65	1000	20	0
SZ1615KGN	RA-CML	AR0712021	R1	CY2308SXC-1HT	150	-65	500	17	0
SZ1615KGN	RA-CML	AR0712021	R1	CY2308SXC-1HT	150	-65	1000	17	0
SZ1615KGN	RA-CML	AR0712029	R1	CY2308SXC-2	150	-65	500	17	0
SZ1615KGN	RA-CML	AR0712029	R1	CY2308SXC-2	150	-65	1000	17	0
SZ1615KGN	RA-CML	AR0713023	R1	CY23S09SXC-1T	150	-65	500	17	0
SZ1615KGN	RA-CML	AR0713023	R1	CY23S09SXC-1T	150	-65	1000	17	0
SZ1615KGN	RA-CML	AR0713030	R1	CY7C63803-SXC	150	-65	500	19	0
SZ1615KGN	RA-CML	AR0713030	R1	CY7C63803-SXC	150	-65	1000	19	0
SZ1615KGN	RA-CML	AR0715028	R1	CY7C63803-SXC	150	-65	500	20	0
SZ1615KGN	RA-CML	AR0715028	R1	CY7C63803-SXC	150	-65	1000	20	0
SZ1615KGN	RA-CML	AR0721021	R1	CY2308SXC-1HT	150	-65	500	17	0
SZ1615KGN	RA-CML	AR0721021	R1	CY2308SXC-1HT	150	-65	1000	17	0
SZ1615KGN	RA-CML	AR0724019	R1	CY2308SXI-1HT	150	-65	500	17	0
SZ1615KGN	RA-CML	AR0724019	R1	CY2308SXI-1HT	150	-65	1000	17	0
SZ1615KGN	RA-CML	AR0724032	R1	CY2308SXC-2T	150	-65	500	20	0
SZ1615KGN	RA-CML	AR0724032	R1	CY2308SXC-2T	150	-65	1000	20	0
SZ1615KGN	RA-CML	AR0725022	R1	CY2309SXC-1HT	150	-65	500	17	0
SZ1615KGN	RA-CML	AR0725022	R1	CY2309SXC-1HT	150	-65	1000	17	0
SZ1615KGN	RA-CML	MR071056	R1	CY2309SXI-1H	150	-65	500	77	0
SZ1615KGN	RA-CML	MR071056	R1	CY2309SXI-1H	150	-65	1000	77	0

SZ1615KGN	RA-CML	MR072020	R1	CY2309SXC-1	150	-65	500	80	0
SZ1615KGN	RA-CML	MR072020	R1	CY2309SXC-1	150	-65	1000	80	0
SZ1615KGN	RA-CML	MR073010	R1	CY2309SXC-1HT	150	-65	500	80	0
SZ1615KGN	RA-CML	MR073010	R1	CY2309SXC-1HT	150	-65	1000	80	0
SZ1615KGN	RA-CML	NR072009	R4	CY2292SXL-1V6T	150	-65	500	15	0
SZ1615KGN	RA-CML	NR072009	R4	CY2292SXL-1V6T	150	-65	1000	15	0
SZ1615KGN	RA-CML	NR072009	R5	CY2292SXL-1X5T	150	-65	500	15	0
SZ1615KGN	RA-CML	NR072009	R5	CY2292SXL-1X5T	150	-65	1000	15	0
SZ1615KGN	RA-CML	NR072009	R6	CY2292SXI-1T1T	150	-65	500	15	0
SZ1615KGN	RA-CML	NR072009	R6	CY2292SXI-1T1T	150	-65	1000	15	0
SZ183AGAN	M-PHIL	MR064051	R1	CY7C63813-SXC	150	-65	300	50	0
SZ183AGAN	M-PHIL	MR064051	R1	CY7C63813-SXC	150	-65	1000	49	0
SZ183AGAN	M-PHIL	MR064051	R1	CY7C63813-SXC	150	-65	500	49	0
SZ183AGAN	M-PHIL	MR072028	R1	CY7C63723-SXC	150	-65	500	80	0
SZ183AGAN	M-PHIL	MR072028	R1	CY7C63723-SXC	150	-65	1000	80	0
SZ183CGAN	RA-CML	MR064009	R1	CY7C63723-SXC	150	-65	1000	50	0
SZ183CGAN	RA-CML	MR064009	R1	CY7C63723-SXC	150	-65	500	50	0
SZ183CGAN	RA-CML	MR072026	R1	CY7C63723-SXC	150	-65	500	80	0
SZ183CGAN	RA-CML	MR072026	R1	CY7C63723-SXC	150	-65	1000	80	0
SZ183CGAN	RA-CML	MR073013	R1	CY7C63723-SXC	150	-65	500	80	0
SZ183CGAN	RA-CML	MR073013	R1	CY7C63723-SXC	150	-65	1000	80	0
SZ2035GAL	R-CML	MR064053	R1	CY8C24223A-24SXI	150	-65	1000	10	0
SZ2035GAL	R-CML	MR064053	R1	CY8C24223A-24SXI	150	-65	500	50	0
SZ2035GAL	R-CML	MR072009	R1	CY8C24223A-24SXI	150	-65	500	79	0
SZ2035GAL	R-CML	MR072009	R1	CY8C24223A-24SXI	150	-65	1000	79	0
SZ32	R-CML	AR0715007	R1	CY7C53120E2-10SXI	150	-65	500	17	0
SZ32	R-CML	AR0715007	R1	CY7C53120E2-10SXI	150	-65	1000	17	0
SZ323ABAGS	M-PHIL	70802	3	CY14B101L-SZ45XC	150	-65	300	45	0
SZ324513LN	RA-CML	AR0719007	R1	CY62128BNLL-70SXI	150	-65	500	16	0
SZ324513LN	RA-CML	AR0719007	R1	CY62128BNLL-70SXI	150	-65	1000	16	0
SZ324513LN	R-CML	MR073007	R1	CY62128BNLL-70SXIT	150	-65	500	80	0
SZ324513LN	R-CML	MR073007	R1	CY62128BNLL-70SXIT	150	-65	1000	80	0
SZ324513N	R-CML	AR0724011	R1	CY7C53120E2-10SXI	125	-65	500	16	0
SZ324513N	R-CML	AR0724011	R1	CY7C53120E2-10SXI	125	-65	1000	16	0
SZ324513N	R-CML	MR064074	R1	CY7C53120E4-40SXI	150	-65	300	50	0
SZ324513N	R-CML	MR064074	R1	CY7C53120E4-40SXI	150	-65	1000	50	0
SZ324513N	R-CML	MR064074	R1	CY7C53120E4-40SXI	150	-65	500	50	0
SZ324514LL	R-CML	MR064021	R1	CY62148DV30LL-70SXI	150	-65	1000	50	0
SZ324514LL	R-CML	MR064021	R1	CY62148DV30LL-70SXI	150	-65	500	50	0
SZ32457LN	R-CML	AR0714010	R1	AR0714010	150	-65	500	11	0
SZ32457LN	R-CML	AR0714010	R1	CY62128ELL-45SXI	150	-65	1000	11	0
SZ32457LN	RA-CML	AR0717011	R1	CY62128ELL-45SXIT	150	-65	500	17	0
SZ32457LN	RA-CML	AR0717011	R1	CY62128ELL-45SXIT	150	-65	1000	17	0
SZ32457LN	R-CML	MR072007	R1	CY62128ELL-45SXI	150	-65	500	80	0
SZ32457LN	R-CML	MR072007	R1	CY62128ELL-45SXI	150	-65	1000	80	0
SZ815DAGN	M-PHIL	MR071023	R1	CY2305SXC-1HT	150	-65	1000	80	0
SZ815DAGN	M-PHIL	MR071023	R1	CY2305SXC-1HT	150	-65	500	80	0
SZ815DAGN	M-PHIL	MR072002	R1	CY2305SXI-1H	150	-65	500	80	0
SZ815DAGN	M-PHIL	MR072002	R1	CY2305SXI-1H	150	-65	1000	80	0
SZ815PAGN	RA-CML	71306	R1	CY25560BR	150	-65	500	80	0
SZ815PAGN	RA-CML	71306	R1	CY25560BR	150	-65	1000	80	0
SZ815PAGN	RA-CML	71306	R1A	CY25560BR	150	-65	500	79	0
SZ815PAGN	RA-CML	71306	R1A	CY25560BR	150	-65	1000	79	0
SZ815PAGN	RA-CML	71306	R2	CY25560BR	150	-65	500	80	0
SZ815PAGN	RA-CML	71306	R2	CY25560BR	150	-65	1000	80	0
SZ815PAGN	RA-CML	71306	R2A	CY25560BR	150	-65	500	80	0
SZ815PAGN	RA-CML	71306	R2A	CY25560BR	150	-65	1000	80	0
SZ815PAGN	RA-CML	71306	R3	CY25560BR	150	-65	500	78	0
SZ815PAGN	RA-CML	71306	R3	CY25560BR	150	-65	1000	78	0
SZ815PAGN	RA-CML	71306	R3A	CY25560BR	150	-65	500	79	0



SZ815PAGN	RA-CML	71306	R3A	CY25560BR	150	-65	1000	79	0
SZ815PAGN	RA-CML	AR0709018	R1	CY25811SXCT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0709018	R1	CY25811SXCT	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0709031	R1	CY2305SXC-1	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0709031	R1	CY2305SXC-1	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0711023	R1	CY24713SXCT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0711023	R1	CY24713SXCT	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0711025	R1	CY2071AFXC	150	-65	500	19	0
SZ815PAGN	RA-CML	AR0711025	R1	CY2071AFXC	150	-65	1000	19	0
SZ815PAGN	RA-CML	AR0712017	R1	CY25814SXCT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0712017	R1	CY25814SXCT	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0713020	R1	CY2305SXC-1HT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0713020	R1	CY2305SXC-1HT	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0713027	R1	CY2305SXC-1	150	-65	500	20	0
SZ815PAGN	RA-CML	AR0713027	R1	CY2305SXC-1	150	-65	1000	20	0
SZ815PAGN	RA-CML	AR0715024	R1	CY25560SXCT	150	-65	500	20	0
SZ815PAGN	RA-CML	AR0715024	R1	CY25560SXCT	150	-65	1000	20	0
SZ815PAGN	RA-CML	AR0715025	R1	CY2305SXC-1HT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0715025	R1	CY2305SXC-1HT	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0716023	R1	CY2305SXC-1HT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0716023	R1	CY2305SXC-1HT	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0718034	R1	CY25560SXCT	150	-65	500	11	0
SZ815PAGN	RA-CML	AR0718034	R1	CY25560SXCT	150	-65	1000	11	0
SZ815PAGN	RA-CML	AR0718040	R1	CY25560SXC	150	-65	500	20	0
SZ815PAGN	RA-CML	AR0718040	R1	CY25560SXC	150	-65	1000	20	0
SZ815PAGN	R-CML	AR0719019	R1	CY25560SXCT	150	-65	500	17	0
SZ815PAGN	R-CML	AR0719019	R1	CY25560SXCT	150	-65	1000	17	0
SZ815PAGN	R-CML	AR0719024	R1	CY241V8ASXC-11T	150	-65	500	16	0
SZ815PAGN	R-CML	AR0719024	R1	CY241V8ASXC-11T	150	-65	1000	16	0
SZ815PAGN	RA-CML	AR0720025	R1	CY25811SXCT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0720025	R1	CY25811SXCT	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0720031	R1	7C80722AT-RASZI	150	-65	500	20	0
SZ815PAGN	RA-CML	AR0720031	R1	7C80722AT-RASZI	150	-65	1000	20	0
SZ815PAGN	RA-CML	AR0721019	R1	CY2071AFXC	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0721019	R1	CY2071AFXC	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0721031	R1	CY2305SXC-1T	150	-65	500	20	0
SZ815PAGN	RA-CML	AR0721031	R1	CY2305SXC-1T	150	-65	1000	20	0
SZ815PAGN	RA-CML	AR0722022	R1	CY241V8ASXC-13T	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0722022	R1	CY241V8ASXC-13T	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0722027	R1	CY2305SXC-1T	150	-65	500	19	0
SZ815PAGN	RA-CML	AR0722027	R1	CY2305SXC-1T	150	-65	1000	19	0
SZ815PAGN	RA-CML	AR0724018	R1	CY25814SXCT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0724018	R1	CY25814SXCT	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0724029	R1	CY25814SXCT	150	-65	500	20	0
SZ815PAGN	RA-CML	AR0724029	R1	CY25814SXCT	150	-65	1000	20	0
SZ815PAGN	RA-CML	AR0725024	R1	CY2305SXC-1	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0725024	R1	CY2305SXC-1	150	-65	1000	17	0
SZ815PAGN	RA-CML	AR0725031	R1	CY25560SXCT	150	-65	500	20	0
SZ815PAGN	RA-CML	AR0725031	R1	CY25560SXCT	150	-65	1000	20	0
SZ815PAGN	RA-CML	AR0728024	R1	CY25560SXCT	150	-65	500	17	0
SZ815PAGN	RA-CML	AR0728024	R1	CY25560SXCT	150	-65	1000	17	0
20L SOIC	R-CML	74101	R1	CP6168CM	150	-65	500	112	0
20L SOIC	R-CML	74101	R1A	CP6168CM	150	-65	500	112	0
24L SOIC	R-CML	74101	R2	CP6124BM	150	-65	500	112	0
24L SOIC	R-CML	74101	R2A	CP6124BM	150	-65	500	112	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	150	-65	500	80	0
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	150	-65	1000	80	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	150	-65	500	80	0
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	150	-65	1000	80	0
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	150	-65	500	80	0

SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	150	-65	1000	80	0
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXI-1T1	150	-65	500	80	0
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXI-1T1	150	-65	1000	80	0
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	150	-65	500	80	0
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	150	-65	1000	80	0
SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	150	-65	500	80	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	150	-65	500	80	0
SZ24312GN	R-CML	MR074040	R1	CS6575AA	150	-65	1000	80	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	150	-65	500	78	0
SZ32457LN	R-CML	MR074005	R1	CG6707AM	150	-65	1000	78	0
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	150	-65	500	79	0
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	150	-65	1000	79	0

**Summary for Package Family : SOIC (Pb-free) (165 records)**

**Sum** **7,204** **0**

**SSOP**

O563AXAGN	R-CML	MR064045	R1	CY28419OC	150	-65	1000	45	0
O563AXAGN	R-CML	MR071027	R1	CY28419OC	150	-65	500	80	0
O563AXAGN	R-CML	MR071027	R1	CY28419OC	150	-65	1000	80	0

**Summary for Package Family : SSOP (3 records)**

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

**SSOP (Pb-free)**

SP2023GAL	T-TAIWAN	MR071036	R1	CS6585AMT	150	-65	500	80	0
SP2023GAL	T-TAIWAN	MR071036	R1	CS6585AMT	150	-65	1000	80	0
SP2023GAL	T-TAIWAN	MR073029	R1	CY8C24223BC-24PVXIT	150	-65	500	80	0
SP2023GAL	T-TAIWAN	MR073029	R1	CY8C24223BC-24PVXIT	150	-65	1000	80	0
SP2024AGL	M-PHIL	MR072011	R1	CG6646AA	150	-65	500	80	0
SP2024AGL	M-PHIL	MR072011	R1	CG6646AA	150	-65	1000	80	0
SP2026YAN	T-TAIWAN	MR071006	R1	CY8C21334-24PVXI	150	-65	500	80	0
SP2026YAN	T-TAIWAN	MR071006	R1	CY8C21334-24PVXI	150	-65	1000	80	0
SP2029AAGL	RA-CML	NR064003	R1	CY8C21334-24PVXI	150	-65	300	50	0
SP2029AAGL	RA-CML	NR064003	R1	CY8C21334-24PVXI	150	-65	1000	50	0
SP2029AAGL	RA-CML	NR064003	R1	CY8C21334-24PVXI	150	-65	500	50	0
SP2029AAGL	RA-CML	NR064003	R10	8C21334AC-RASPI	150	-65	500	15	0
SP2029AAGL	RA-CML	NR064003	R10	8C21334AC-RASPI	150	-65	1000	15	0
SP2029AAGL	RA-CML	NR064003	R11	8C21334AC-RASPI	150	-65	500	15	0
SP2029AAGL	RA-CML	NR064003	R11	8C21334AC-RASPI	150	-65	1000	15	0
SP2029AAGL	RA-CML	NR064003	R2	CY8C21334-24PVXI	150	-65	500	80	0
SP2029AAGL	RA-CML	NR064003	R2	CY8C21334-24PVXI	150	-65	1000	80	0
SP2029AAGL	RA-CML	NR064003	R3	CY8C21334-24PVXI	150	-65	500	77	0
SP2029AAGL	RA-CML	NR064003	R3	CY8C21334-24PVXI	150	-65	1000	74	0
SP2029AAGL	RA-CML	NR064003	R4	CY8C21334-24PVXI	150	-65	500	15	0
SP2029AAGL	RA-CML	NR064003	R4	CY8C21334-24PVXI	150	-65	1000	15	0
SP2029AAGL	RA-CML	NR064003	R5	CY8C21334-24PVXI	150	-65	500	15	0
SP2029AAGL	RA-CML	NR064003	R5	CY8C21334-24PVXI	150	-65	1000	15	0
SP2029AAGL	RA-CML	NR064003	R7	CY8C21334-24PVXIT	150	-65	500	15	0
SP2029AAGL	RA-CML	NR064003	R7	CY8C21334-24PVXIT	150	-65	1000	15	0
SP2029AAGL	RA-CML	NR064003	R8	8C21334AC-RASPI	150	-65	500	15	0
SP2029AAGL	RA-CML	NR064003	R8	8C21334AC-RASPI	150	-65	1000	15	0
SP2029AAGL	RA-CML	NR064003	R9	8C21334AC-RASPI	150	-65	500	15	0
SP2029AAGL	RA-CML	NR064003	R9	8C21334AC-RASPI	150	-65	1000	15	0
SP28	RA-CML	NR064003	R6	CY8C29466-24PVXI	150	-65	500	15	0
SP28	RA-CML	NR064003	R6	CY8C29466-24PVXI	150	-65	1000	15	0
SP2814HAL	M-PHIL	63210	R1	CY8C27443-24PVXI	150	-65	1000	47	0
SP2814HAL	M-PHIL	MR064068	R1	CS6250AM	150	-65	1000	48	0
SP2814HAL	M-PHIL	MR064068	R1	CS6250AM	150	-65	500	48	0
SP28214GL	T-TAIWAN	MR064082	R1	CY7C64215-28PVXC	150	-65	1000	99	0
SP28214GL	T-TAIWAN	MR064082	R1	CY7C64215-28PVXC	150	-65	500	100	0
SP28214GL	T-TAIWAN	MR072004	R1	CY8C24423A-24PVXI	150	-65	500	76	0
SP28214GL	T-TAIWAN	MR072004	R1	CY8C24423A-24PVXI	150	-65	1000	76	0
SP28215GGL	RA-CML	AR0716027	R1	CY8C24423A-24PVXI	150	-65	500	20	0





SP28215GGL	RA-CML	AR0718039	R1	CY8C24423A-24PVXI	150	-65	500	20	0
SP28215GGL	RA-CML	AR0721012	R1	CY8C24423A-24PVXI	150	-65	500	17	0
SP28215GGL	RA-CML	AR0721012	R1	CY8C24423A-24PVXI	150	-65	1000	17	0
SP28215GGL	RA-CML	AR0725029	R1	CY8C24423A-24PVXI	150	-65	500	20	0
SP28215GGL	RA-CML	AR0725029	R1	CY8C24423A-24PVXI	150	-65	1000	20	0
SP28215GGL	RA-CML	MR072021	R1	CY8C1534-24PVXIT	150	-65	500	80	0
SP28215GGL	RA-CML	MR072021	R1	CY8C1534-24PVXIT	150	-65	1000	80	0
SP28215GGL	RA-CML	MR073021	R1	CY8C27443-24PVXI	150	-65	500	80	0
SP28215GGL	RA-CML	MR071070	R1	CY8C21534-24PVXIT	150	-65	500	97	0
SP28215GGL	RA-CML	MR071070	R1	CY8C21534-24PVXIT	150	-65	1000	97	0
SP2821AGB	M-PHIL	MR071029	R1	CY8C21534-24PVXI	150	-65	500	100	0
SP2821AGB	M-PHIL	MR071029	R1	CY8C21534-24PVXI	150	-65	1000	99	0
SP2821AGB	M-PHIL	NR072013	R1	CY8C21534-24PVXI	150	-65	500	76	0
SP2821AGB	M-PHIL	NR072013	R1	CY8C21534-24PVXI	150	-65	1000	76	0
SP2821AGB	M-PHIL	NR072013	R2	CY60323-PVXC	150	-65	500	15	0
SP2821AGB	M-PHIL	NR072013	R2	CY60323-PVXC	150	-65	500	40	0
SP2821AGB	M-PHIL	NR072013	R2	CY60323-PVXC	150	-65	1000	15	0
SP2821AGB	M-PHIL	NR072013	R2	CY60323-PVXC	150	-65	1000	40	0
SP2821AGB	M-PHIL	NR072013	R5	CY7C60323-PVXC	150	-65	500	80	0
SP2821AGB	M-PHIL	NR072013	R5	CY7C60323-PVXC	150	-65	1000	80	0
SP2821AGB	M-PHIL	NR072013	R6	CY8C21534-24PVXI	150	-65	500	15	0
SP2821AGB	M-PHIL	NR072013	R6	CY8C21534-24PVXI	150	-65	1000	15	0
SP2821AGB	M-PHIL	NR072013	R7	CY8C21534-24PVXI	150	-65	500	15	0
SP2821AGB	M-PHIL	NR072013	R7	CY8C21534-24PVXI	150	-65	1000	15	0
SP2821AGB	M-PHIL	NR072013	R8	CY8C21534-24PVXI	150	-65	500	15	0
SP2821AGB	M-PHIL	NR072013	R8	CY8C21534-24PVXI	150	-65	1000	15	0
SP2821GGL	RA-CML	AR0726024	R1	CY8C24423A-24PVXI	150	-65	500	17	0
SP2821GGL	RA-CML	AR0726024	R1	CY8C24423A-24PVXI	150	-65	1000	17	0
SP2822BGL	M-PHIL	NR071001	R1	CY8C24423A-12PVXE	150	-65	500	49	0
SP2822BGL	M-PHIL	NR071001	R1	CY8C24423A-12PVXE	150	-65	1000	49	0
SP2822BGL	M-PHIL	NR072025	R4	CY8C24423A-24PVXI	150	-65	500	14	0
SP2822BGL	M-PHIL	NR072025	R4	CY8C24423A-24PVXI	150	-65	1000	14	0
SP2822BGL	M-PHIL	NR072025	R5	CY8C24423A-24PVXI	150	-65	500	14	0
SP2822BGL	M-PHIL	NR072025	R5	CY8C24423A-24PVXI	150	-65	1000	14	0
SP2822BGL	M-PHIL	NR072025	R6	CY8C24423A-24PVXI	150	-65	500	14	0
SP2822BGL	M-PHIL	NR072025	R6	CY8C24423A-24PVXI	150	-65	1000	13	0
SP483AGAN	R-CML	MR072017	R1	CY7C63413C-PVXC	150	-65	500	80	0
SP483AGAN	R-CML	MR072017	R1	CY7C63413C-PVXC	150	-65	1000	80	0
SP563AAGN	R-CML	71201	R2B	CY28409OXCT	150	-65	500	80	0
SP563AAGN	R-CML	AR0721001	R1	CY505YC56DST	150	-65	500	15	0
SP563AAGN	R-CML	AR0721001	R1	CY505YC56DST	150	-65	1000	15	0
SP563AAGN	R-CML	AR0725005	R1	CY28410OXCT	150	-65	500	17	0
SP563AAGN	R-CML	AR0725005	R1	CY28410OXCT	150	-65	1000	17	0
SP563AAGN	R-CML	MR071041	R1	CY28409OXCT	150	-65	500	80	0
SP563AAGN	R-CML	MR071041	R1	CY28409OXCT	150	-65	1000	80	0
SP563BBGL	T-TAIWAN	MR072029	R1	CY7C68013A-56PVXC	150	-65	500	78	0
SP563BBGL	T-TAIWAN	MR072029	R1	CY7C68013A-56PVXC	150	-65	1000	78	0
SP563BGAL	R-CML	72304	R1	CY7C68300C	150	-65	500	76	0
SP563BGAL	R-CML	72304	R2	CY7C68300C	150	-65	500	76	0
SP563BGAL	R-CML	72304	R3	CY7C68300C	150	-65	500	76	0
SP563BGAL	R-CML	AR0717003	R1	CY7C68300C-56PVXC	150	-65	500	16	0
SP563BGAL	R-CML	AR0717003	R1	CY7C68300C-56PVXC	150	-65	1000	16	0
20L SSOP	RA-CML	73103	R2A	N/A	150	-65	1000	45	0
20L SSOP	RA-CML	73103	R2B	N/A	150	-65	1000	61	0
20L SSOP	RA-CML	73103	R2C	N/A	150	-65	1000	70	0
20L SSOP	RA-CML	73103	R2D	N/A	150	-65	1000	40	0
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	150	-65	500	80	0
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	150	-65	1000	80	0
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	150	-65	500	80	0
SP28215GCL	RA-CML	73103	R1A	NA	150	-65	1000	77	0



SP28215GCL	RA-CML	73103	R1B	NA	150	-65	1000	77	0
SP28215GCL	RA-CML	73103	R1C	NA	150	-65	1000	77	0
SP28215GCL	RA-CML	73103	R1D	NA	150	-65	1000	77	0
SP28215GCL	RA-CML	73103	R3A	NA	150	-65	1000	77	0
SP28215GCL	RA-CML	73103	R3B	NA	150	-65	1000	75	0
SP28215GCL	RA-CML	73103	R3C	NA	150	-65	1000	45	0
SP28215GCL	RA-CML	73103	R3D	NA	150	-65	1000	75	0
SP28215GGL	RA-CML	MR073021	R1	CY8C27443-24PVXI	150	-65	1000	80	0
SP2822BGL	M-PHIL	NR071001	R3	CP6659AMT	150	-65	500	80	0
SP2822BGL	M-PHIL	NR071001	R3	CP6659AMT	150	-65	1000	80	0
SP2822BGL	M-PHIL	NR071001	R7	CY8C24423A-12PVXE	150	-65	500	15	0
SP2822BGL	M-PHIL	NR071001	R8	CP6659AM	150	-65	500	15	0
SP2822BGL	M-PHIL	NR071001	R9	CP6659AM	150	-65	500	13	0
SP2824HAN	T-OSE	72402	R1A	CY8C24633-24PVXI	150	-65	500	26	0
SP2824HAN	T-OSE	72402	R1A	CY8C24633-24PVXI	150	-65	1000	26	0
SP2824HAN	T-OSE	72402	R1B	CY8C24633-24PVXI	150	-65	500	26	0
SP2824HAN	T-OSE	72402	R1B	CY8C24633-24PVXI	150	-65	1000	26	0
SP2824HAN	T-OSE	72402	R1C	CY8C24633-24PVXI	150	-65	500	26	0
SP2824HAN	T-OSE	72402	R1C	CY8C24633-24PVXI	150	-65	1000	26	0
SP563AAGL	T	NR072021	R3	CY7C68000-56PVXC	150	-65	500	80	0
SP563AAGL	T	NR072021	R3	CY7C68000-56PVXC	150	-65	1000	80	0
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	150	-65	500	80	0
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	150	-65	1000	80	0
SP563BAGL	R-CML	MR073055	R1	CP6603AMT	150	-65	1000	77	0
SP563BBGL	T	NR072021	R2	CY7C68014A-56PVXC	150	-65	500	80	0
SP563BBGL	T	NR072021	R2	CY7C68014A-56PVXC	150	-65	1000	80	0
SP56AAGL	T	NR072021	R1	CY7C68000-56PVXC	150	-65	500	80	0
SP56AAGL	T	NR072021	R1	CY7C68000-56PVXC	150	-65	1000	80	0
SP2822BGL	M-PHIL	NR071001	R7	CY8C24423A-12PVXE	150	-65	1000	15	0
SP2822BGL	M-PHIL	NR071001	R8	CP6659AM	150	-65	1000	15	0
SP2822BGL	M-PHIL	NR071001	R9	CP6659AM	150	-65	1000	13	0

**Summary for Package Family : SSOP (Pb-free) (130 records)**

**Sum** **6,424** **0**

**SOIC (J-Lead)**

V243GGBLE	O-INDONESIA	MR064020	R1	CY7C194B-15VC	150	-65	1000	45	0
V243GGBLE	O-INDONESIA	MR064020	R1	CY7C194B-15VC	150	-65	500	45	0
V2835GALN	R-CML	MR064011	R1	CY7C185-20VC	150	-65	1000	49	0
V2835GALN	R-CML	MR071001	R1	CY7C185-25VC	150	-65	500	80	0
V2835GALN	R-CML	MR071001	R1	CY7C185-25VC	150	-65	1000	80	0
V2835GALN	R-CML	MR073047	R1	CY7C185-15VI	150	-65	500	79	0
V32421GLN	R-CML	MR071050	R1	CY7C1019CV33-12VI	150	-65	500	80	0
V32421GLN	R-CML	MR071050	R1	CY7C1019CV33-12VI	150	-65	1000	79	0
V32421XLN	R-CML	MR064003	R1	CY7C1019CV33-12VC	150	-65	1000	50	0
V32421XLN	R-CML	MR064003	R1	CY7C1019CV33-12VC	150	-65	500	50	0
V3644GALL	R-CML	72104	R2A	CY2305SXC	150	-65	500	77	0
V3644GALL	R-CML	72104	R2A	CY2305SXC	150	-65	1000	77	0
V3644GALL	R-CML	72104	R2B	CY2305SXC	150	-65	500	76	0
V3644GALL	R-CML	72104	R2B	CY2305SXC	150	-65	1000	76	0
V3644GALL	R-CML	72104	R2C	CY2305SXC	150	-65	500	77	0
V3644GALL	R-CML	72104	R2C	CY2305SXC	150	-65	1000	77	0
V3646GALL	R-CML	MR073033	R1	CY7C1049CV33-	150	-65	500	80	0
V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	150	-65	500	80	0
V284CGAGGB	O-INDS	MR073017	R1	CY7C107BN-15VC	150	-65	1000	77	0
V284CGAGGB	O-IND	MR074014	R1	CY7C107BN-15VCT	150	-65	500	77	0
V28311ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	150	-65	1000	80	0

**Summary for Package Family : SOIC (J-Lead) (21 records)**

**Sum** **1,491** **0**

**SOIC (J-Lead, Pb-Free)**

VZ2439AGS	O-INDONESIA	MR064067	R1	CY7C187-25VXC	150	-65	300	50	0
VZ2439AGS	O-INDONESIA	MR064067	R1	CY7C187-25VXC	150	-65	1000	50	0

VZ2439AGS	O-INDONESIA	MR064067	R1	CY7C187-25VXC	150	-65	500	50	0
VZ2439AGS	O-INDONESIA	MR071061	R1	CY7C187-35VXC	150	-65	500	80	0
VZ2439AGS	O-INDONESIA	MR071061	R1	CY7C187-35VXC	150	-65	1000	80	0
VZ28311KLL	R-CML	72104	R3A	CY7C1399BN	150	-65	500	77	0
VZ28311KLL	R-CML	72104	R3A	CY7C1399BN	150	-65	1000	77	0
VZ28311KLL	R-CML	72104	R3B	CY7C1399BN	150	-65	500	77	0
VZ28311KLL	R-CML	72104	R3B	CY7C1399BN	150	-65	1000	77	0
VZ28311KLL	R-CML	72104	R3C	CY7C1399BN	150	-65	500	77	0
VZ28311KLL	R-CML	72104	R3C	CY7C1399BN	150	-65	1000	77	0
VZ28311KLL	R-CML	MR073008	R1	CY7C1399BNL-15VXCT	150	-65	500	80	0
VZ28311KLL	R-CML	MR073008	R1	CY7C1399BNL-15VXCT	150	-65	1000	80	0
VZ32418LL	R-CML	NR064001	R1	7C109SMC-RVZC	150	-65	300	50	0
VZ32418LL	R-CML	NR064001	R1	7C109SMC-RVZC	150	-65	1000	39	0
VZ32418LL	R-CML	NR064001	R1	7C109SMC-RVZC	150	-65	500	50	0
VZ32418LL	R-CML	NR064001	R2	7C109SMC-RVZC	150	-65	300	50	0
VZ32418LL	R-CML	NR064001	R2	7C109SMC-RVZC	150	-65	500	50	0
VZ32421LL	R-CML	NR064001	R3	7C1319GC-RVZC	150	-65	1000	79	0
VZ32421LL	R-CML	NR064001	R3	7C1319GC-RVZC	150	-65	500	79	0
VZ3644GALL	R-CML	MR064066	R1	CY7C1049B-15VXI	150	-65	300	50	0
VZ3644GALL	R-CML	MR064066	R1	CY7C1049B-15VXI	150	-65	1000	50	0
VZ3644GALL	R-CML	MR064066	R1	CY7C1049B-15VXI	150	-65	500	50	0
VZ3648GALL	R-CML	AR0718013	R1	CY7C1049D-10VXIT	150	-65	500	11	0
VZ3648GALL	R-CML	AR0718013	R1	CY7C1049D-10VXIT	150	-65	1000	11	0
VZ3648GALL	R-CML	AR0722003	R1	CY7C1049DV33-10VXIT	150	-65	500	17	0
VZ3648GALL	R-CML	AR0722003	R1	CY7C1049DV33-10VXIT	150	-65	1000	17	0
VZ3648GALL	R-CML	AR0723001	R1	CY7C1049D-10VXIT	150	-65	500	17	0
VZ3648GALL	R-CML	AR0723001	R1	CY7C1049D-10VXIT	150	-65	1000	11	0
VZ3648GALL	R-CML	AR0724001	R1	CY7C1049DV33-10VXIT	150	-65	500	17	0
VZ3648GALL	R-CML	AR0724001	R1	CY7C1049DV33-10VXIT	150	-65	1000	17	0
VZ3648GALL	R-CML	AR0725001	R1	CY7C1049DV33-10VXIT	150	-65	500	17	0
VZ3648GALL	R-CML	AR0725001	R1	CY7C1049DV33-10VXIT	150	-65	1000	17	0
VZ3648GALL	R-CML	AR0729007	R1	CY7C1049DV33-10VXI	150	-65	500	17	0
VZ3648GALL	R-CML	AR0729007	R1	CY7C1049DV33-10VXI	150	-65	1000	17	0
VZ3648GALL	R-CML	MR073032	R1	CY7C1049DV33-10VXIT	150	-65	500	80	0
VZ444ZALL	R-CML	72104	R1A	CY7C1021CV33	150	-65	500	77	0
VZ444ZALL	R-CML	72104	R1A	CY7C1021CV33	150	-65	1000	77	0
VZ444ZALL	R-CML	72104	R1B	CY7C1021CV33	150	-65	500	77	0
VZ444ZALL	R-CML	72104	R1B	CY7C1021CV33	150	-65	1000	77	0
VZ444ZALL	R-CML	72104	R1C	CY7C1021CV33	150	-65	500	77	0
VZ444ZALL	R-CML	72104	R1C	CY7C1021CV33	150	-65	1000	77	0
VZ444ZALL	R-CML	MR064052	R1	CY7C1021CV33-8VXC	150	-65	1000	50	0
VZ444ZALL	R-CML	MR071024	R1	CY7C1021CV33-10VXC	150	-65	500	80	0
VZ444ZALL	R-CML	MR071024	R1	CY7C1021CV33-10VXC	150	-65	1000	80	0
VZ2439AGS	O-INDS	MR073016	R1	CY7C187-25VXC	150	-65	1000	77	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	150	-65	500	80	0
VZ2845ALL	O-OMEDATA	NR072008	R1	CY7C106D-10VXI	150	-65	500	50	0
VZ2845ALL	O-OMEDATA	NR072008	R2	CY7C106D-10VXI	150	-65	500	50	0
VZ2845ALL	O-OMEDATA	NR072008	R3	CY7C107D-10VXI	150	-65	500	50	0
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	150	-65	500	80	0
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	150	-65	1000	80	0
VZ3648GALL	R-CML	74202	R4	CY7C1049DV33-10VXI	150	-65	500	80	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	150	-65	1000	79	0

Summary for Package Family : SOIC (J-Lead, Pb-free) (54 records)

<b>Sum</b>								<b>3,043</b>	<b>0</b>
<b>TQFP</b>									
A100SEGAGL	R-CML	MR073004	R1	CY7B994V-2AC	150	-65	500	80	0
A100SEGAGL	R-CML	MR073004	R1	CY7B994V-2AC	150	-65	1000	80	0
A32BXGBGB	Q-KOREA	MR073040	R1	CY7C433-10AC	150	-65	500	80	0
A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	150	-65	500	48	0
A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	150	-65	1000	48	0



A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	150	-65	1500	43	0
A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	150	-65	2000	42	0
A52ASGAGE	Q-KOREA	MR071062	R1	CY7B9973V-AC	150	-65	500	80	0
A52ASGAGE	Q-KOREA	MR071062	R1	CY7B9973V-AC	150	-65	1000	80	0
A32BVGGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	150	-65	500	78	0

**Summary for Package Family : TQFP (10 records)**

**Sum** **659** **0**

**TQFP (Pb-free)**

AZ100RRAL	R-CML	NR064002	R4	7C1471AC-RAZC	150	-65	300	14	0
AZ100RRAL	R-CML	NR064002	R4	7C1471AC-RAZC	150	-65	500	14	0
AZ100RUAGN	R-CML	65105	R1	CY7C68013A-100AXC	150	-65	300	50	0
AZ100RUAGN	R-CML	65105	R1	CY7C68013A-100AXC	150	-65	500	50	0
AZ100RUAGN	R-CML	65105	R1A	CY7C68013A-100AXC	150	-65	500	30	0
AZ100RUAGN	R-CML	65105	R1A	CY7C68013A-100AXC	150	-65	1000	28	0
AZ100RUAGN	R-CML	65105	R2	CY7C68013A-100AXC	150	-65	500	80	0
AZ100RUAGN	R-CML	65105	R2	CY7C68013A-100AXC	150	-65	1000	79	0
AZ100RUAGN	R-CML	65105	R3	CY7C68013A-100AXC	150	-65	500	50	0
AZ100RUAGN	R-CML	65105	R3	CY7C68013A-100AXC	150	-65	1000	50	0
AZ100RUALN	R-CML	MR064076	R1	CY7C1345G-100AXC	150	-65	300	49	0
AZ100RUALN	R-CML	MR064076	R1	CY7C1345G-100AXC	150	-65	1000	49	0
AZ100RUALN	R-CML	MR064076	R1	CY7C1345G-100AXC	150	-65	500	49	0
AZ100RULN	R-CML	63302	R2A	CY7C1325G-100AXI	150	-65	300	50	0
AZ100RULN	R-CML	63302	R2A	CY7C1325G-100AXI	150	-65	1000	50	0
AZ100RULN	R-CML	63302	R2A	CY7C1325G-100AXI	150	-65	500	50	0
AZ100RULN	R-CML	63302	R2B	CY7C1325G-100AXI	150	-65	300	50	0
AZ100RULN	R-CML	63302	R2B	CY7C1325G-100AXI	150	-65	1000	49	0
AZ100RULN	R-CML	63302	R2B	CY7C1325G-100AXI	150	-65	500	49	0
AZ100RULN	R-CML	63302	R3A	CY7C1325G-100AXI	150	-65	300	50	0
AZ100RULN	R-CML	63302	R3A	CY7C1325G-100AXI	150	-65	1000	49	0
AZ100RULN	R-CML	63302	R3A	CY7C1325G-100AXI	150	-65	500	49	0
AZ100RULN	R-CML	63302	R3B	CY7C1325G-100AXI	150	-65	300	50	0
AZ100RULN	R-CML	63302	R3B	CY7C1325G-100AXI	150	-65	1000	49	0
AZ100RULN	R-CML	63302	R3B	CY7C1325G-100AXI	150	-65	500	49	0
AZ100RULN	R-CML	MR064010	R1	CY7C1325G-133AXC	150	-65	1000	49	0
AZ100RXLL	R-CML	MR071051	R1	CY7C1354CV25-166AXC	150	-65	500	80	0
AZ100RXLL	R-CML	MR071051	R1	CY7C1354CV25-166AXC	150	-65	1000	80	0
AZ100RXLL	R-CML	MR072033	R1	CY7C1360C-166AXI	150	-65	500	80	0
AZ100RXLL	R-CML	MR072033	R1	CY7C1360C-166AXI	150	-65	1000	80	0
AZ100SFAL	R-CML	MR073022	R1	CY7C1049DV33-10VXIT	150	-65	500	80	0
AZ100SFAL	R-CML	MR073022	R1	CY7C1049DV33-10VXIT	150	-65	1000	80	0
AZ128SALL	R-CML	MR072015	R1	CY7C64713-128AXC	150	-65	500	79	0
AZ128SALL	R-CML	MR072015	R1	CY7C64713-128AXC	150	-65	1000	79	0
AZ160SDAAR	Q-KOREA	64701	R1	CY37192P160-83AXC	150	-65	1000	50	0
AZ160SDAAR	Q-KOREA	64701	R1	CY37192P160-83AXC	150	-65	500	50	0
AZ160SDAAR	Q-KOREA	64701	R2	CY37192P160-83AXC	150	-65	300	50	0
AZ160SDAAR	Q-KOREA	64701	R2	CY37192P160-83AXC	150	-65	1000	50	0
AZ160SDAAR	Q-KOREA	64701	R2	CY37192P160-83AXC	150	-65	500	50	0
AZ160SDAAR	Q-KOREA	64701	R3	CY37192P160-83AXC	150	-65	1000	50	0
AZ160SDAAR	Q-KOREA	64701	R3	CY37192P160-83AXC	150	-65	500	50	0
AZ32BXGAN	Q-KOREA	MR073057	R1	CY7C4251-15AXC	150	-65	500	80	0
AZ44SEGLL	R-CML	MR064061	R1	CY7C1011CV33-12AXI	150	-65	1000	49	0
AZ44SEGLL	R-CML	MR064061	R1	CY7C1011CV33-12AXI	150	-65	500	50	0
AZ44SFGAN	R-CML	MR073031	R1	CY37032VP44-100AXC	150	-65	500	79	0
AZ44SFGAN	R-CML	MR073031	R1	CY37032VP44-100AXC	150	-65	1000	79	0
AZ52ASGAL	Q-KOREA	MR064075	R1	CY7B9945V-2AXI	150	-65	1000	44	0
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	150	-65	500	74	0
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	150	-65	1000	74	0
AZ64HXGAL	R-CML	MR072016	R1	CY7C4225-15AXC	150	-65	500	80	0
AZ64HXGAL	R-CML	MR072016	R1	CY7C4225-15AXC	150	-65	1000	80	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	150	-65	500	80	0

AZ128SALL	R-CML	74404	R1	7C681000BC-RAZC	150	-65	500	68	9	074404-1T1	9-Cut wedge
AZ128SALL	R-CML	74404	R1A	7C681000BC-RAZC	150	-65	500	39	38	074404-1AT1	38-Cut wedge
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	150	-65	500	80	0		
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	150	-65	1000	80	0		
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	150	-65	500	80	0		
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	150	-65	1000	80	0		
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	150	-65	1000	78	0		

**Summary for Package Family : TQFP (Pb-free) (59 records)**

**Sum** **3,497** **47**

**TQFP (Thermal, Pb-free)**

AG120ABAGR	Q-KOREA	NR072017	R1	CYS25G0101DX-ATXC	150	-65	500	80	0		
AG120ABAGR	Q-KOREA	NR072017	R1	CYS25G0101DX-ATXC	150	-65	1000	79	0		

**Summary for Package Family : TQFP (Thermal, Pb-Free) (2 records)**

**Sum** **159** **0**

**TSOP (Pb-free)**

ZT28RGLL	R-CML	MR073052	R1	CY7C199D-10ZXI	150	-65	500	80	0		
ZT32RABALL	T-TAIWAN	MR071049	R1	CY62128ELL-45ZXI	150	-65	500	80	0		
ZT32RABALL	T-TAIWAN	MR071049	R1	CY62128ELL-45ZXI	150	-65	1000	80	0		
ZT32RABALL	T-TAIWAN	MR073024	R1	CY62128ELL-45ZXIT	150	-65	500	79	0		
ZT32RABALL	T-TAIWAN	MR073024	R1	CY62128ELL-45ZXIT	150	-65	1000	79	0		
ZT32RABALL	T-TAIWAN	MR073034	R1	CY62128EV30LL-45ZXI	150	-65	500	80	0		
ZT32RABALL	T-TAIWAN	MR073034	R1	CY62128EV30LL-45ZXI	150	-65	1000	80	0		
ZT32RACALL	RA-CML	63907	R1	CY7C109BN-15ZXC	150	-65	1000	50	0		
ZT32RACALL	RA-CML	63907	R2	CY7C109BN-15ZXC	150	-65	1000	47	0		
ZT32RACALL	RA-CML	63907	R2	CY7C109BN-15ZXC	150	-65	500	48	0		
ZT32RACALL	RA-CML	63907	R3	CY7C109BN-15ZXC	150	-65	1000	40	0		
ZT32RZALL	T-TAIWAN	MR064078	R1	CY7C109D-10ZXI	150	-65	300	50	0		
ZT32RZALL	T-TAIWAN	MR064078	R1	CY7C109D-10ZXI	150	-65	1000	50	0		
ZT32RZALL	T-TAIWAN	MR064078	R1	CY7C109D-10ZXI	150	-65	500	50	0		
ZT48ACALL	G-TAIWAN	MR063016	R1	CY62167DV30LL-45ZXI	150	-65	500	45	0		
ZT48AJAALL	T-Taiwan	71906	R1	CY62167DV30LL	150	-65	500	77	0		
ZT48AJAALL	T-Taiwan	71906	R2	CY62167DV30LL	150	-65	500	77	0		
ZT48AJAALL	T-Taiwan	71906	R2	CY62167DV30LL	150	-65	1000	77	0		
ZT48AJAALL	T-Taiwan	71906	R3	CY62167DV30LL	150	-65	500	77	0		
ZT48AJAALL	T-Taiwan	71906	R3	CY62167DV30LL	150	-65	1000	77	0		
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	150	-65	500	79	0		
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	150	-65	500	78	0		
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	150	-65	1000	78	0		
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	150	-65	500	45	0		
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	150	-65	1000	41	0		
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	150	-65	500	45	0		
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	150	-65	1000	45	0		
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	150	-65	500	45	0		
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	150	-65	1000	43	0		
ZT32RADALL	RA-CML	NR073006	R4	CY62128ELL-45ZXIT	150	-65	500	14	0		
ZT32RADALL	RA-CML	NR073006	R4	CY62128ELL-45ZXIT	150	-65	1000	14	0		
ZT32RADALL	RA-CML	NR073006	R5	CY62128ELL-45ZXIT	150	-65	500	15	0		
ZT32RADALL	RA-CML	NR073006	R5	CY62128ELL-45ZXIT	150	-65	1000	15	0		
ZT32RADALL	RA-CML	NR073006	R9	CY62128ELL-45ZXIT	150	-65	500	14	0		
ZT32RADALL	RA-CML	NR073006	R9	CY62128ELL-45ZXIT	150	-65	1000	14	0		
ZT48ACALL	G-TAIWAN	MR063016	R1	CY62167DV30LL-45ZXI	150	-65	500X	45	0		
ZT28RAGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	150	-65	1000	79	0	0	

**Summary for Package Family : TSOP (Pb-free) (37 records)**

**Sum** **2,032** **0**

**EXPOSED TSOP (Pb-free)**

ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXC	150	-65	500	75	0		
ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXC	150	-65	1000	75	0		

**Summary for Package Family : EXPOSED TSOP (Pb-free) (2 records)**

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

**TSOP I (Pb-free)**

ZB32RHALL	R-CML	64507	R1	CY62128BLL-55ZAXIT	150	-65	300	50	0
ZB32RHALL	R-CML	64507	R1	CY62128BLL-55ZAXIT	150	-65	1000	49	0
ZB32RHALL	R-CML	64507	R1	CY62128BLL-55ZAXIT	150	-65	500	49	0
ZB32RHALL	R-CML	64507	R2	CY62128BLL-55ZAXIT	150	-65	300	50	0
ZB32RHALL	R-CML	64507	R2	CY62128BLL-55ZAXIT	150	-65	1000	50	0
ZB32RHALL	R-CML	64507	R2	CY62128BLL-55ZAXIT	150	-65	500	50	0
ZB32RHALL	R-CML	64507	R3	CY62128BLL-55ZAXIT	150	-65	300	50	0
ZB32RHALL	R-CML	64507	R3	CY62128BLL-55ZAXIT	150	-65	1000	50	0
ZB32RHALL	R-CML	64507	R3	CY62128BLL-55ZAXIT	150	-65	500	50	0
ZB32RHALL	R-CML	NR072020	R1	CY62128BLL-70ZAXI	150	-65	500	80	0
ZB32RHALL	R-CML	NR072020	R1	CY62128BLL-70ZAXI	150	-65	1000	80	0
ZB32RHALL	R-CML	NR072020	R4	CY62128BLL-55ZAXI	150	-65	500	15	0
ZB32RHALL	R-CML	NR072020	R4	CY62128BLL-55ZAXI	150	-65	1000	15	0
ZB32RHALN	R-CML	MR064028	R1	CY62128EV30LL-45ZAXI	150	-65	1000	50	0
ZB32RHALN	R-CML	MR064028	R1	CY62128EV30LL-45ZAXI	150	-65	500	50	0
ZB32RHALN	R-CML	MR071021	R1	CY62128EV30LL-45ZAXI	150	-65	500	80	0
ZB32RHALN	R-CML	MR071021	R1	CY62128EV30LL-45ZAXI	150	-65	1000	80	0
ZB32RHALN	R-CML	MR073025	R1	CY62128EV30LL-45ZAXI	150	-65	500	80	0
ZB32RKALL	T-TAIWAN	MR064071	R1	CY62128ELL-45ZAXI	150	-65	300	50	0
ZB32RKALL	T-TAIWAN	MR064071	R1	CY62128ELL-45ZAXI	150	-65	1000	50	0
ZB32RKALL	T-TAIWAN	MR064071	R1	CY62128ELL-45ZAXI	150	-65	500	50	0
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	150	-65	500	80	0
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	150	-65	1000	80	0

**Summary for Package Family : TSOP I (Pb-Free) (23 records)**

**Sum** **1,288** **0**

**TSOP II**

ZS444AJALN	R-CML	MR064029	R1	CY7C1021CV33-15ZC	150	-65	1000	50	0
ZS444AJALN	R-CML	MR071022	R1	CY7C1021CV33-10ZI	150	-65	500	80	0
ZS444AJALN	R-CML	MR071022	R1	CY7C1021CV33-10ZI	150	-65	1000	80	0
ZS444AKALN	R-CML	MR064022	R1	CY7C1041CV33-20ZC	150	-65	1000	50	0
ZS444RAGB	R-CML	MR073027	R1	CG6079AA	150	-65	500	80	0
ZS544AALE	G-TAIWAN	MR064044	R1	CY7C1069AV33-10ZC	150	-65	1000	45	0
ZS544AALE	G-TAIWAN	MR064044	R1	CY7C1069AV33-10ZC	150	-65	500	45	0
ZS544AALE	G-TAIWAN	MR064044	R1	CY7C1069AV33-10ZC	150	-65	500	45	0
ZS544AALE	G-TAIWAN	MR064044	R1	CY7C1069AV33-10ZC	150	-65	500	45	0

**Summary for Package Family : TSOP II (9 records)**

**Sum** **520** **0**

**TSOP II (Pb-free)**

ZW324CBLL	T-TAIWAN	MR064047	R1	CY62148ELL-45ZSXI	150	-65	1000	48	0
ZW324CBLL	T-TAIWAN	MR064047	R1	CY62148ELL-45ZSXI	150	-65	500	48	0
ZW324FBGL	T-TAIWAN	MR071047	R1	CY7C1019CV33-15ZXC	150	-65	500	80	0
ZW324FBGL	T-TAIWAN	MR071047	R1	CY7C1019CV33-15ZXC	150	-65	1000	80	0
ZW444AJGN	R-CML	MR073012	R1	CY7C1021CV33-12ZXC	150	-65	500	80	0
ZW444AJGN	R-CML	MR073012	R1	CY7C1021CV33-12ZXC	150	-65	1000	80	0
ZW444AJLN	R-CML	MR064059	R1	CY7C1020CV26-15ZSXE	150	-65	1000	80	0
ZW444AJLN	R-CML	MR071048	R1	CY7C1020CV33-15ZSXE	150	-65	500	80	0
ZW444AJLN	R-CML	MR071048	R1	CY7C1020CV33-15ZSXE	150	-65	1000	79	0
ZW444AMLN	R-CML	MR072036	R2	CY62147DV30L-55ZSXE	150	-65	500	50	0
ZW444AMLN	R-CML	MR072036	R2	CY62147DV30L-55ZSXE	150	-65	1000	50	0
ZW544AAL	G-TAIWAN	MR071071	R2	CY7C1061AV33-10ZXC	150	-65	500	80	0
ZW544AAL	G-TAIWAN	MR071071	R2	CY7C1061AV33-10ZXC	150	-65	1000	80	0
ZW544AALL	G-TAIWAN	MR064024	R1	CY7C1061AV33-12ZXC	150	-65	1000	50	0
ZW544AALL	G-TAIWAN	MR071063	R1	CY7C1061AV33-12ZXC	150	-65	500	75	0
ZW544AALL	G-TAIWAN	MR071063	R1	CY7C1061AV33-12ZXC	150	-65	1000	75	0
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	150	-65	500	80	0
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	150	-65	1000	80	0
ZW544AALL	G-TAIWAN	MR073058	R1	CY7C1069AV33-12ZXC	150	-65	1000	74	0

**Summary for Package Family : TSOP II (Pb-free) (19 records)**

**Sum** **1,349** **0**

**RTSOP**



ZR28R2AGN	R-CML	MR073030	R1	CY62256LL-70ZRIT	150	-65	500	80	0
<b>Summary for Package Family : RTSOP (1 record)</b>									
<b>Sum</b>									
								<b>80</b>	<b>0</b>
<b>RTSOP (Pb-free)</b>									
ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	150	-65	500	80	0
ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	150	-65	1000	80	0
<b>Summary for Package Family : RTSOP (Pb-free) (2 records)</b>									
<b>Sum</b>									
								<b>160</b>	<b>0</b>
<b>TSSOP</b>									
Z1613GAGB	T-TAIWAN	MR064032	R1	CY2308ZI-1H	150	-65	1000	47	0
Z1613GAGB	T-TAIWAN	MR071009	R1	CY2308ZI-1H	150	-65	500	80	0
Z1613GAGB	T-TAIWAN	MR071009	R1	CY2308ZI-1H	150	-65	1000	80	0
Z1619GAGN	RA-CML	AR0711021	R1	CY26121ZC-21T	150	-65	500	17	0
Z1619GAGN	RA-CML	AR0711021	R1	CY26121ZC-21T	150	-65	1000	17	0
Z1619GAGN	RA-CML	AR0712032	R1	CY2309ZC-1HT	150	-65	500	19	0
Z1619GAGN	RA-CML	AR0712032	R1	CY2309ZC-1HT	150	-65	1000	19	0
Z1619GAGN	RA-CML	AR0713016	R1	CY2309ZC-1HT	150	-65	500	17	0
Z1619GAGN	RA-CML	AR0713016	R1	CY2309ZC-1HT	150	-65	1000	17	0
Z1619GAGN	RA-CML	AR0715030	R1	CY2309ZC-1HT	150	-65	500	20	0
Z1619GAGN	RA-CML	AR0715030	R1	CY2309ZC-1HT	150	-65	1000	20	0
Z1619GAGN	R-CML	AR0718026	R1	CY2309ZC-1HT	150	-65	500	11	0
Z1619GAGN	R-CML	AR0718042	R1	CY22393FC	150	-65	500	18	0
Z1619GAGN	R-CML	AR0718042	R1	CY22393FC	150	-65	1000	18	0
Z1619GAGN	RA-CML	AR0721023	R1	CY26121ZI-21T	150	-65	500	20	0
Z1619GAGN	RA-CML	MR073011	R1	CY22050FI	150	-65	500	80	0
Z1619GAGN	RA-CML	MR073011	R1	CY22050FI	150	-65	1000	80	0
Z1619GAGN	R-CML	AR0720028	R1	CY22393FC	150	-65	500	20	0
Z5624BAGN	R-CML	MR064072	R1	CY28419ZC	150	-65	1000	47	0
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	150	-65	500	80	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	150	-65	500	80	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	150	-65	1000	80	0
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	150	-65	500	80	0
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	150	-65	1000	80	0
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	150	-65	1000	80	0
<b>Summary for Package Family : TSSOP (24 records)</b>									
<b>Sum</b>									
								<b>1,127</b>	<b>0</b>
<b>TSSOP (Pb-free)</b>									
ZZ08	VIGILANT	72303	R1	CY24904ZXC	150	-65	500	76	0
ZZ08	VIGILANT	72303	R1	CY24904ZXC	150	-65	1000	76	0
ZZ08	VIGILANT	72303	R2	CY24904ZXC	150	-65	500	75	0
ZZ08	VIGILANT	72303	R2	CY24904ZXC	150	-65	1000	75	0
ZZ08	VIGILANT	72303	R3	CY24904ZXC	150	-65	500	74	0
ZZ08	VIGILANT	72303	R3	CY24904ZXC	150	-65	1000	74	0
ZZ1614HAN	T-TAIWAN	MR071054	R1	CY26049ZXI-36	150	-65	500	77	0
ZZ1614HAN	T-TAIWAN	MR071054	R1	CY26049ZXI-36	150	-65	1000	71	0
ZZ1619GAL	RA-CML	AR0724026	R1	CY22388ZXC-13T	150	-65	500	20	0
ZZ1619GAL	RA-CML	AR0724026	R1	CY22388ZXC-13T	150	-65	1000	20	0
ZZ1619GAN	CML-RA	AR0709025	R1	CS6474AAT	150	-65	500	19	0
ZZ1619GAN	CML-RA	AR0709025	R1	CS6474AAT	150	-65	1000	19	0
ZZ1619GAN	RA-CML	AR0710040	R1	CS6540AAT	150	-65	500	20	0
ZZ1619GAN	RA-CML	AR0710040	R1	CS6540AAT	150	-65	1000	20	0
ZZ1619GAN	RA-CML	AR0711027	R1	CY22150FZXC	150	-65	500	20	0
ZZ1619GAN	RA-CML	AR0711027	R1	CY22150FZXC	150	-65	1000	20	0
ZZ1619GAN	RA-CML	AR0712025	R1	CY22393FXI	150	-65	500	17	0
ZZ1619GAN	RA-CML	AR0712025	R1	CY22393FXI	150	-65	1000	17	0
ZZ1619GAN	RA-CML	AR0713025	R1	CS6474AAT	150	-65	500	20	0
ZZ1619GAN	RA-CML	AR0713025	R1	CS6474AAT	150	-65	1000	20	0
ZZ1619GAN	RA-CML	AR0716017	R1	CY22392FXC	150	-65	500	20	0
ZZ1619GAN	RA-CML	AR0716017	R1	CY22392FXC	150	-65	1000	20	0
ZZ1619GAN	RA-CML	AR0716029	R1	CY22050FZXI	150	-65	500	20	0

ZZ1619GAN	RA-CML	AR0716029	R1	CY22050FZXI	150	-65	1000	20	0
ZZ1619GAN	R-CML	AR0719021	R1	CY24204ZXC-3T	150	-65	500	16	0
ZZ1619GAN	R-CML	AR0719021	R1	CY24204ZXC-3T	150	-65	1000	16	0
ZZ1619GAN	R-CML	AR0719023	R1	CY22393FXCT	150	-65	500	20	0
ZZ1619GAN	R-CML	AR0719023	R1	CY22393FXCT	150	-65	1000	20	0
ZZ1619GAN	RA-CML	AR0722018	R1	CY2309ZXC-1HT	150	-65	500	17	0
ZZ1619GAN	RA-CML	AR0722018	R1	CY2309ZXC-1HT	150	-65	1000	17	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXI-1H	150	-65	1500	78	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXI-1H	150	-65	2000	78	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXI-1H	150	-65	2500	78	0
ZZ1619GAN	RA-CML	MR073023	R1	CY22392ZXC-386	150	-65	500	80	0
ZZ1619GAN	RA-CML	MR073023	R1	CY22392ZXC-386	150	-65	1000	80	0
ZZ2817AGL	RA-CML	MR071043	R1	CY28517ZXCT	150	-65	500	80	0
ZZ2817AGL	RA-CML	MR071043	R1	CY28517ZXCT	150	-65	1000	80	0
ZZ2817AGL	RA-CML	NR072006	R1	CY28517ZXC	150	-65	500	80	0
ZZ2817AGL	RA-CML	NR072006	R1	CY28517ZXC	150	-65	1000	80	0
ZZ5624BGN	R-CML	AR0708004	R1	CY284108ZXCT	150	-65	500	13	0
ZZ5624BGN	R-CML	AR0712012	R1	CY505YC56DTT	150	-65	500	17	0
ZZ5624BGN	R-CML	AR0712012	R1	CY505YC56DTT	150	-65	1000	17	0
ZZ5624BGN	R-CML	AR072005	R1	CY505YC56DTT	150	-65	500	15	0
ZZ5624BGN	R-CML	MR071002	R1	CY505YC56DT	150	-65	500	80	0
ZZ5624BGN	R-CML	MR071002	R1	CY505YC56DT	150	-65	1000	80	0
ZZ5624BGN	R-CML	MR072010	R1	CY505YC56DT	150	-65	500	78	0
ZZ5624BGN	R-CML	MR072010	R1	CY505YC56DT	150	-65	1000	78	0
ZZ6421GAGL	M-PHIL	MR064016	R1	CY28548ZXC	150	-65	1000	46	0
ZZ6421GAGL	M-PHIL	NR064005	R1	7C885052DC-MZZC	150	-65	300	49	0
ZZ6421GAGL	M-PHIL	NR064005	R1	7C885052DC-MZZC	150	-65	1000	48	0
ZZ6421GAGL	M-PHIL	NR064005	R1	7C885052DC-MZZC	150	-65	500	49	0
ZZ6421GAGL	M-PHIL	NR064005	R2	7C885052DC-MZZC	150	-65	300	50	0
ZZ6421GAGL	M-PHIL	NR064005	R2	7C885052DC-MZZC	150	-65	1000	49	0
ZZ6421GAGL	M-PHIL	NR064005	R2	7C885052DC-MZZC	150	-65	500	50	0
ZZ6421GAGL	M-PHIL	NR064005	R3	7C885052DC-MZZC	150	-65	300	50	0
ZZ6421GAGL	M-PHIL	NR064005	R3	7C885052DC-MZZC	150	-65	1000	50	0
ZZ6421GAGL	M-PHIL	NR064005	R3	7C885052DC-MZZC	150	-65	500	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	150	-65	300	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	150	-65	500	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R1	CY2XP31ZXC	150	-65	1000	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	150	-65	300	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	150	-65	500	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R2	CY2XP31ZXC	150	-65	1000	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	150	-65	300	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	150	-65	500	50	0
ZZ0813AAAL	OSE-Taiwan	64606	R3	CY2XP31ZXC	150	-65	1000	50	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXI-1H	150	-65	3500	78	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXI-1H	150	-65	4000	78	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXI-1H	150	-65	4500	78	0
ZZ1619GAN	RA-CML	MR071057	R1A	CY2309ZXI-1H	150	-65	5000	78	0
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	150	-65	500	79	0
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	150	-65	1000	78	0
ZZ2415GAL	RA-CML	60909	R4	CY22315ZXCT	150	-65	500X	44	0
ZZ2415GAL	CML-RA	NR072010	R1	CY22315ZXC	150	-65	500	80	0
ZZ2415GAL	CML-RA	NR072010	R1	CY22315ZXC	150	-65	1000	80	0
ZZ2817AGL	RA-CML	NR072006	R2	CY28547ZXC	150	-65	1000	76	0

Summary for Package Family : TSSOP (Pb-free) (76 records)

Sum 3,798 0



### Summary Detail -- HTS Performance Over Time

From: 1/1/2007

To: 1/6/2008

Bldkit	Assy Site	EvalNum	TV	Device	Temp	Readout	SS	Rejects	FA	Results
<b>CLCC</b>										
84L CLCC	X-THAILAND	70308	R1	CY115SM1300AB-QDC	150	500	15	0		
84L CLCC	X-THAILAND	70308	R1	CY115SM1300AB-QDC	150	1000	15	0		
<b>Summary for Package Family : CLCC (2 records)</b>										
<b>Sum</b>								<b>30</b>	<b>0</b>	
<b>FBGA (0.75-0.8, 0.3mm)</b>										
BA48BQAAL	RA-CML	MR071064	R1	CY62137CVSL-70BAI	150	500	78	0		
BA48BQAAL	RA-CML	MR071064	R1	CY62137CVSL-70BAI	150	1000	78	0		
BA48BQAAL	RA-CML	MR073051	R1	CY62137CVSL-70BAIT	150	500	80	0		
BA48CDGALE	G-TAIWAN	MR064063	R1	CY7C1041CV33-10BAC	150	1000	50	0		
BA48CDGALE	ASE-G	MR073003	R1	CY7C1041CV33-10BAC	150	500	80	0		
BA48CDGALE	ASE-G	MR073003	R1	CY7C1041CV33-10BAC	150	1000	80	0		
BA48CRALE	T-TAIWAN	MR064017	R1	CY62137CVSL-70BAIT	150	1000	50	0		
BA48CRALE	T-TAIWAN	MR071052	R1	CY62137CVSL-70BAI	150	500	80	0		
BA48CRALE	T-TAIWAN	MR071052	R1	CY62137CVSL-70BAI	150	1000	80	0		
BA48CRALE	T-TAIWAN	MR071053	R1	CY62137CVSL-70BAI	150	100	71	0		
BA48CRALE	T-TAIWAN	MR071053	R1	CY62137CVSL-70BAI	150	500	76	0		
BA48CRALE	OSE-T	MR074046	R1	CY62137CVSL-70BAIT	150	500	80	0		
<b>Summary for Package Family : FBGA (0.75-0.8, 0.3mm) (12 records)</b>										
<b>Sum</b>								<b>883</b>	<b>0</b>	
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>										
BK48BQALL	RA-CML	MR071046	R1	CY62137CVSL-70BAXI	150	500	80	0		
BK48BQALL	RA-CML	MR071046	R1	CY62137CVSL-70BAXI	150	1000	80	0		
BK48BQALL	RA-CML	MR073046	R1	CY62137CVSL-70BAXIT	150	500	80	0		
BK48BWALL	G-TAIWAN	MR071045	R1	CY7C1021CV33-8BAXC	150	500	80	0		
BK48BWALL	G-TAIWAN	MR071045	R1	CY7C1021CV33-8BAXC	150	1000	80	0		
BK48BWALL	G-TAIWAN	MR071045	R1A	CY7C1021CV33-10BAXI	150	500	80	0		
BK48BWALL	G-TAIWAN	MR071045	R1A	CY7C1021CV33-10BAXI	150	1000	80	0		
BK48BWALL	G-TAIWAN	MR072032	R1	CY7C1021CV33-10BAXI	150	500	80	0		
BK48BWALL	G-TAIWAN	MR072032	R1	CY7C1021CV33-10BAXI	150	1000	80	0		
BK48BWALL	G-TAIWAN	MR073041	R1	CY7C1021CV33-10BAXI	150	500	79	0		
BK48BWALL	G-TAIWAN	MR073041	R1	CY7C1021CV33-10BAXI	150	1000	79	0		
BK48CDALL	G-TAIWAN	MR064057	R1	CY7C1041CV33-10BAXI	150	1000	50	0		
<b>Summary for Package Family : FBGA (0.78-0.8, 0.3mm, Pb-free) (12 records)</b>										
<b>Sum</b>								<b>928</b>	<b>0</b>	
<b>FBGA (1.0)</b>										
BB100EAAL	ASE-G	MR073001	R1	CY7B994V-2BBI	150	500	80	0		
BB100EAAL	ASE-G	MR073001	R1	CY7B994V-2BBI	150	1000	80	0		
BB165	RA-CML	MR074047	R1	CY7C1313BV18-250BZC	150	1000	80	0		
BB165ALLE	G-TAIWAN	MR071042	R1	CY7C1313BV18-250BZC	150	500	79	0		
BB165ALLE	G-TAIWAN	MR071042	R1	CY7C1313BV18-250BZC	150	1000	79	0		
BB165AVLE	CML-RA	MR074047	R1	CY7C1313BV18-250BZC	150	500	80	0		
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	150	1000	77	0		
BB165AVLE	RA-CML	NR073007	R1	CY7C1313BV18-250BZC	150	500	77	0		
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	150	500	77	0		
BB165AVLE	RA-CML	NR073007	R2	CY7C1313BV18-250BZC	150	1000	77	0		
<b>Summary for Package Family : FBGA (1.0) (10 records)</b>										
<b>Sum</b>								<b>786</b>	<b>0</b>	
<b>FBGA (1.0, Pb-free)</b>										
BW165YALL	TAIWAN-G	71211	R4	CY7C1512V18	150	500	80	0		
<b>Summary for Package Family :FBGA (1.0, Pb-free) (1 record)</b>										
<b>Sum</b>								<b>80</b>	<b>0</b>	
<b>VFBGA (0.75-0.8, 0.3mm)</b>										

BV48AMAAL	G-TAIWAN	MR073035	R1	CY62136CV30LL-55BVI	150	500	80	0
BV48ATALE	RA-CML	MR064069	R1	CY62157DV30LL-55BVI	150	500	50	0
BV48ATALE	RA-CML	MR064069	R1	CY62157DV30LL-55BVI	150	1000	50	0
BV48ATALE	RA-CML	MR071072	R1	CY62157DV30LL-70BVIT	150	500	80	0
BV48ATALE	RA-CML	MR071072	R1	CY62157DV30LL-70BVIT	150	1000	80	0
BV48BAAALE	G-TAIWAN	MR074003	R1	CG6601AA	150	1000	80	0
BV48BAAALE	G-TAIWAN	MR074003	R1	CG6601AA	150	500	80	0
BV48BAAALE	G-TAIWAN	MR064034	R1	CY62157DV30LL-70BVI	150	1000	49	0
BV48BNALE	G-TAIWAN	63901	R1	CY62167DV30LL	150	500	50	0
BV48BNALE	G-TAIWAN	63901	R1	CY62167DV30LL	150	1000	50	0
BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	150	500	80	0
BV48CJALL	RA-CML	MR074025	R1	CY62167DV30LL-70BVI	150	1000	80	0
BV48RAALE	G-TAIWAN	MR071058	R1	CY7C1011CV33-10BVI	150	500	80	0
BV48RAALE	G-TAIWAN	MR071058	R1	CY7C1011CV33-10BVI	150	1000	78	0

**Summary for Package Family : VFBGA (0.75-0.8, 0.3mm) (14 records)**

**Sum** **967** **0**

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

BZ100BAALL	G-TAIWAN	MR074035	R1	CYDM128A16-65BVXI	150	500	80	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	150	1000	80	0
BZ100CGAL	RA-CML	MR074017	R1	CYWB0124AB-BVXIT	150	500	80	0
BZ48BAAAGL	AIT-INDONESIA	NR072005	R1	CYK256K16SCBU	150	1000	76	0
BZ48BAAAGL	AIT-INDONESIA	NR072005	R2	CYK256K16SCBU-70BVXI	150	500	73	0
BZ48BAAAGL	AIT-INDONESIA	NR072005	R2	CYK256K16SCBU-70BVXI	150	1000	73	0
BZ48BAAAGL	AIT-INDONESIA	NR072005	R3	CYK256K16SCBU	150	1000	72	0
BZ48ANAARL	AIT-Indonesia	71902	R1	CY62157DV30LL-70BVXI	150	500	80	0
BZ48ANAARL	AIT-Indonesia	71902	R1	CY62157DV30LL-70BVXI	150	1000	80	0
BZ48ATALL	RA-CML	MR071040	R1	CY62157DV30LL-70BVXI	150	500	79	0
BZ48ATALL	RA-CML	MR071040	R1	CY62157DV30LL-70BVXI	150	1000	78	0
BZ48BAAALL	G-TAIWAN	MR071038	R1	CY62157DV30LL-70BVXI	150	500	75	0
BZ48BAAALL	G-TAIWAN	MR071038	R1	CY62157DV30LL-70BVXI	150	1000	75	0
BZ48BBAALL	AIT-INDONESIA	72302	R1	CY62167DV30LL-70BVXI	150	500	77	0
BZ48BBAALL	AIT-INDONESIA	72302	R1	CY62167DV30LL-70BVXI	150	1000	76	0
BZ48BKALE	RA-CML	MR064079	R1	CYK256K16MCBU-70BVXI	150	500	50	0
BZ48BKALE	RA-CML	MR064079	R1	CYK256K16MCBU-70BVXI	150	1000	49	0
BZ48CHAALL	ASE-G	MR073005	r1	CY62126EV30LL-45BVXI	150	500	80	0
BZ48CHAALL	ASE-G	MR073005	r1	CY62126EV30LL-45BVXI	150	1000	80	0
BZ56AGAGL	G-TAIWAN	MR064027	R1	CY7C68013A-56BAXC	150	1000	50	0
BZ56AGAGL	G-TAIWAN	MR072018	R1	CY7C68013A-56BAXC	150	500	80	0
BZ56AGAGL	G-TAIWAN	MR072018	R1	CY7C68013A-56BAXC	150	1000	80	0
BZ56AGAGL	G-TAIWAN	MR074057	R1	CY7C68013-56BAXC	150	500	80	0
BZ56AGAGL	G-TAIWAN	MR074057	R1	CY7C68013-56BAXC	150	1000	80	0
BZ56FAALE	G-TAIWAN	MR064025	R1	CY7C68053-56BAXIES	150	1000	49	0
BZ56GABGL	RA-CML	NR072032	R1	7C680510AC-RABZI	150	500	45	0
BZ56GABGL	RA-CML	NR072032	R1	7C680510AC-RABZI	150	1000	45	0
BZ56IAAAGL	AT-TAIWAN	MR074053	R1	CY7C68053-56BAXIT	150	1000	80	0
BZ56IAAAGL	AT-TAIWAN	MR074053	R1	CY7C68053-56BAXIT	150	500	80	0
BZ56IAAAGL	AT-INDONESIA	NR072003	R1	CY7C68053*56BAXI	165	1000	80	0
BZ56IAAAGL	AIT-Indonesia	NR072003	R2	CY7C68053-56BAXI	150	1000	80	0

**Summary for Package Family : VFBGA (0.75-0.8, 0.3mm, Pb-free) (32 records)**

**Sum** **2,242** **0**

**PBGA (1.27)**

BG119QALE	G-TAIWAN	MR071066	R1	CY7C1325G-133BGC	150	500	80	0
BG119QALE	G-TAIWAN	MR071066	R1	CY7C1325G-133BGC	150	1000	80	0
BG119SALE	G-TAIWAN	MR073002	R1	CY7C1354C-166BGC	150	500	80	0
BG119SALE	G-TAIWAN	MR073002	R1	CY7C1354C-166BGC	150	1000	80	0
BG119SALE	G-TAIWAN	MR074032	R1	CY7C1354C-166BGC	150	500	80	0

**Summary for Package Family : PBGA (1.27) (5 records)**

**Sum** **400** **0**

**PBGA (Cavity/Heatsink)**

BL256L2GE

**Summary for Package Family : PBGA (Cavity/Heatsink) (0 record)**

<b>Sum</b>							<b>0</b>	<b>0</b>
<b>PDIP</b>								
P2831GBGB	O-INDONESIA	MR064073	R1	CY7C425-10PC	150	1000	50	0
P2839GAAGB	X-THAILAND	MR064054	R1	CY7C185-25PC	150	1000	49	0
P2839GAAGB	X-THAILAND	MR071039	R1	CY7C185-25PC	150	500	80	0
P2839GAAGB	X-THAILAND	MR071039	R1	CY7C185-25PC	150	1000	80	0

**Summary for Package Family : PDIP (4 records)**

<b>Sum</b>							<b>259</b>	<b>0</b>
<b>PDIP (Pb-free)</b>								
PZ183AXGN	O-INDNS	MR071003	R1	CY7C63723C-PXC	150	500	77	0
PZ183BXGL	RA-CML	NR063002	R2	7C63720AT-RAPZC	150	500	80	0
PZ183BXGL	RA-CML	NR063002	R2	7C63720AT-RAPZC	150	1000	80	0
PZ183BXGL	RA-CML	NR063002	R3	7C63720AT-RAPZC	150	500	80	0
PZ183BXGL	RA-CML	NR063002	R3	7C63720AT-RAPZC	150	1000	80	0
PZ183DAGN	RA-CML	MR071044	R1	CY7C63723C-PXC	150	500	80	0
PZ183DAGN	RA-CML	MR071044	R1	CY7C63723C-PXC	150	1000	80	0
PZ183DAGN	RA-CML	MR072027	R1	CY7C63723C-PXC	150	500	80	0
PZ183DAGN	RA-CML	MR072027	R1	CY7C63723C-PXC	150	1000	80	0
PZ183DAGN	RA-CML	MR073050	R1	CY7C63723C-PXC	150	500	80	0
PZ183DAGN	RA-CML	MR073050	R1	CY7C63723C-PXC	150	1000	80	0
PZ203CHAN	O-INDONESIA	MR072035	R1	CY8C26233-24PXI	150	500	80	0
PZ203CHAN	O-INDONESIA	MR072035	R1	CY8C26233-24PXI	150	1000	80	0
PZ243DAXGS	O-INDONESIA	MR064001	R1	CY7C63743C-PXC	150	1000	45	0
PZ283EHAL	O-INDS	MR073018	R1	CY8C24423A-24PXI	150	1000	77	0

**Summary for Package Family : PDIP (Pb-free) (15 records)**

<b>Sum</b>							<b>1,159</b>	<b>0</b>
<b>PLCC</b>								
J32RBGAAGB	X-INDS	MR073044	R1	CY7B992-5JIT	150	500	80	0
J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-15JC	150	500	80	0
J32RBGAAGB	X-THAILAND	MR074037	R1	CY7C429-15JC	150	1000	80	0
J32RBGAGB	M-PHIL	MR071007	R1	CY7B991-5JC	150	500	80	0
J32RBGAGB	M-PHIL	MR071007	R1	CY7B991-5JC	150	1000	80	0

**Summary for Package Family : PLCC (5 records)**

<b>Sum</b>							<b>400</b>	<b>0</b>
<b>PLCC (Pb-free)</b>								
JZ32RBGAN	M-PHIL	MR071067	R1	CY7C4231-15JXC	150	500	80	0
JZ32RBGAN	M-PHIL	MR071067	R1	CY7C4231-15JXC	150	1000	80	0
JZ32RBGAN	M-PHILS	MR073043	R1	CY7C4241-15JXC	150	500	80	0
JZ32RBGAN	M-PHILS	MR073043	R1	CY7C4241-15JXC	150	1000	80	0
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	150	1000	80	0
JZ32RBGAN	M-PHIL	MR074011	R1	CY7C4241-15JXC	150	500	80	0
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	150	500	80	0
JZ32RBGAN	M-PHIL	MR074011	R2	CY7C421-20JXC	150	1000	80	0

**Summary for Package Family : PLCC (8 records)**

<b>Sum</b>							<b>640</b>	<b>0</b>
<b>PQFP (Pb-free)</b>								
NZ52DXGAN	G-TAIWAN	MR071073	R1	CY7C136-55NXCT	150	500	78	0
NZ52DXGAN	G-TAIWAN	MR071073	R1	CY7C136-55NXCT	150	1000	78	0
NZ52DXGAN	G-TAIWAN	MR073059	R1	CY7C131-55NXC	150	500	80	0
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	150	500	80	0
NZ52DXGAN	G-TAIWAN	MR074004	R1	CY7C136-55NXC	150	1000	80	0

**Summary for Package Family : PQFP (Pb-free) (5 records)**

<b>Sum</b>							<b>396</b>	<b>0</b>
<b>QFN (COL, 0.6mm, Saw Type, Pb-Free)</b>								
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	150	1000	80	0
LG16AAAAAL	M-PHILS	MR074031	R1	CY8C20234-12LKXIT	150	500	80	0

**Summary for Package Family : QFN (COL, 0.6mm, Saw Type, Pb-free) (2 records)**

<b>Sum</b>							<b>160</b>	<b>0</b>
<b>QFN (Punch Type, Pb-free)</b>								

LY32AGAGL	L-KOREA	MR071008	R1	CY8C21434-24LFXI	150	500	80	0
LY32AGAGL	L-KOREA	MR071008	R1	CY8C21434-24LFXI	150	1000	80	0
LY32AGAGL	L-KOREA	MR072001	R1	CG6672AMT	150	500	80	0
LY32AGAGL	L-KOREA	MR072001	R1	CG6672AMT	150	1000	80	0
LY32AGAGL	L-KOREA	NR072004	R1	CP6631AM	150	500	79	0
LY32AGAGL	L-KOREA	NR072004	R1	CP6631AM	150	1000	79	0
LY32AGAGL	L-KOREA	NR072004	R2	CP6621AM	150	500	80	0
LY32AGAGL	L-KOREA	NR072004	R2	CP6621AM	150	1000	80	0
LY32AGAGL	L-KOREA	NR072004	R3	CS6624AA	150	500	80	0
LY32AGAGL	L-KOREA	NR072004	R3	CS6624AA	150	1000	80	0
LY56AGAGL	L-KOREA	70901	R1	CY7C65630-56LFXC	150	1000	85	0
LY56AGAGL	L-KOREA	MR071035	R1	CY7C65630-56LFXC	150	500	79	0
LY56AGAGL	L-KOREA	MR071035	R1	CY7C65630-56LFXC	150	1000	79	0
LY56AGAGL	L-KOREA	MR072019	R1	CY7C62640A-LFXC	150	500	80	0
LY56AGAGL	L-KOREA	MR072019	R1	CY7C62640A-LFXC	150	1000	71	0
LY56AGAGL	L-KOREA	MR073056	R1	CY7C65630-56LFCT	150	500	80	0
LY56AGAGL	L-KOREA	MR073056	R1	CY7C65630-56LFCT	150	1000	80	0
LY56DGAGL	L-KOREA	MR064006	R1	CY8C24794-24LFXI	150	1000	50	0
LY56DGAGL	L-KOREA	MR074021	R1	CY7C64215-56LFXC	150	500	80	0
LY68AGAAGL	L-KOREA	NR064004	R1	8C24995AK-LLYI	150	1000	49	0
LY68AGAAGL	L-KOREA	NR064004	R2	CY8C24994-24LFXIT	150	500	50	0
LY68AGAAGL	L-KOREA	NR064004	R2	CY8C24994-24LFXIT	150	1000	50	0
LY68AGAAGL	L-KOREA	NR064004	R3	8C24994AT-LLYI	150	500	80	0
LY68AGAAGL	L-KOREA	NR064004	R3	8C24994AT-LLYI	150	1000	80	0
LY72AGAGL	L-KOREA	MR072006	R1	CY28447LFXC	150	500	80	0
LY72AGAGL	L-KOREA	MR072006	R1	CY28447LFXC	150	1000	80	0

**Summary for Package Family : QFN (Punch Type, Pb-free) (26 records)**

**Sum** **1,951** **0**

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

LK32AABAGL	L-SEOUL	MR074006	R1	CY8C20434-12LKXI	150	1000	72	0
LK32AABAGL	L-SEOUL	MR074006	R1	CY8C20434-12LKXI	150	500	80	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	150	500	54	0
LK32AABAGL	L-KOREA	MR074043	R1	CY8C20434-12LKXI	150	1000	54	0
LK32AABGL	L-KOREA	MR074043	R1A	CY8C20434-12LKXI	150	500	24	0
LK32AABGL	L-KOREA	MR074043	R1A	CY8C20434-12LKXI	150	1000	24	0
LK32IGAGL	RA-CML	MR071010	R1	CS6655AA	150	500	79	0
LK32IGAGL	RA-CML	MR071010	R1	CS6655AA	150	1000	76	0
LK32IGAGL	RA-CML	MR072041	R1	CS6655AAT	150	500	80	0
LK32IGAGL	RA-CML	MR072041	R1	CS6655AAT	150	1000	65	0
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	150	1000	68	0
LK32IGAGL	RA-CML	MR074024	R1	CP6745AMT	150	500	80	0

**Summary for Package Family : QFN (Punch Type, 0.6mm, Pb-free) (43 records)**

**Sum** **756** **0**

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

LT68AAAAGL	AIT-Indonesia	72603	R1	CY8C24494A-24LKXI	150	500	50	0
LT68AAAAGL	AIT-Indonesia	72603	R1	CY8C24494A-24LKXI	150	1000	49	0

**Summary for Package Family : QFN (Saw Type, Pb-free) (0 record)**

**Sum** **99** **0**

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

LQ24ABAAL	AT-IND	MR074008	R1	CP6705ATT	150	1000	80	0
LQ24ABAAL	AT-IND	MR074008	R1	CP6705ATT	150	500	80	0
LQ32CAAAL	CARSEM							
LQ32CAAAL	MALAYSIA	72202	R1	CY8C21434A-24LQXI	150	500	77	0
LQ32CAAAL	CARSEM							
LQ32CAAAL	MALAYSIA	72202	R1	CY8C21434A-24LQXI	150	1000	77	0

**Summary for Package Family : QFN (Saw Type, 0.6mm, Pb-free) (0 record)**

**Sum** **314** **0**

**QSOP (Pb-free)**

SQ2012AGN	R-CML	MR074050	R1	CY24745OXC	150	500	79	0
SQ2012AGN	R-CML	MR074050	R1	CY24745OXC	150	1000	78	0
SQ2414AGN	R-CML	MR064015	R1	CY7C63823-QXC	150	1000	47	0

SQ2414AGN	R-CML	MR072005	R1	CY7C63743C-QXC	150	500	80	0	
SQ2414AGN	R-CML	MR072005	R1	CY7C63743C-QXC	150	1000	80	0	
<b>Summary for Package Family : QSOP (Pb-free) (6 records)</b>									
<b>Sum</b>								<b>364</b>	<b>0</b>
<b>SNC</b>									
SN2831AHN	R-CML	MR064056	R1	CY6264-70SNI	150	1000	50	0	
<b>Summary for Package Family : SNC (4 records)</b>									
<b>Sum</b>								<b>50</b>	<b>0</b>
<b>SNC (Pb-free)</b>									
SY2831AHN	R-CML	MR064042	R1	CY6264-70SNXI	150	1000	50	0	
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	150	500	80	0	
SY2831AHN	R-CML	MR074058	R1	CY6264-55SNXI	150	1000	80	0	
SY2831BLN	R-CML	MR073014	R1	CY62256NLL-70SNXC	150	500	80	0	
SY2831BLN	R-CML	MR073014	R1	CY62256NLL-70SNXC	150	1000	79	0	
<b>Summary for Package Family : SNC (Pb-free) (3 records)</b>									
<b>Sum</b>								<b>369</b>	<b>0</b>
<b>SOIC</b>									
S0815BAAGB	T-TAIWAN	MR071034	R1	CY2304SC-1T	150	500	77	0	
S0815BAAGB	O-INDS	MR073020	R1	CY2304SC-2T	150	1000	77	0	
S0815BAAGB	O-TAIWAN	MR074054	R1	CY2304SI-1T	150	1000	77	0	
S0815KAGB	AMKOR-M	MR074062	R1	CY2302SC-1T	150	500	80	0	
S0815KAGB	M-Phils	MR074062	R1	CY2302SC-1T	150	1000	80	0	
S1615DAGB	M-PHILS	MR073038	R1	CY2292SI-705T	150	500	80	0	
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	150	1500	50	0	
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	150	2000	50	0	
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	150	3000	49	0	
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	150	3500	49	0	
S1615KAGN	RA-CML	MR064055	R1A	CY2292SL-1K2	150	4000	46	0	
S1615KAGN	RA-CML	MR071055	R1	CY2309SC-1H	150	500	80	0	
S1615KAGN	RA-CML	MR071055	R1	CY2309SC-1H	150	1000	80	0	
S1615KAGN	R-CML	MR073015	R1	CY2309NZSC-1H	150	500	80	0	
S1615KAGN	R-CML	MR073015	R1	CY2309NZSC-1H	150	1000	80	0	
<b>Summary for Package Family : SOIC (19 records)</b>									
<b>Sum</b>								<b>1,035</b>	<b>0</b>
<b>SOIC (Pb-free)</b>									
SZ1615DGN	M-PHILS	MR073039	R1	CY2292FXC	150	500	80	0	
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	150	1000	80	0	
SZ1615DGN	M-Phils	MR074022	R1	CY8C21234-24SXI	150	500	80	0	
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	150	500	80	0	
SZ1615KAGN	RA-CML	MR074039	R1	CY2309SC-1	150	1000	80	0	
SZ1615KGN	RA-CML	MR071056	R1	CY2309SXI-1H	150	500	80	0	
SZ1615KGN	RA-CML	MR071056	R1	CY2309SXI-1H	150	1000	80	0	
SZ1615KGN	RA-CML	MR072020	R1	CY2309SXC-1	150	500	80	0	
SZ1615KGN	RA-CML	MR072020	R1	CY2309SXC-1	150	1000	80	0	
SZ1615KGN	RA-CML	MR073010	R1	CY2309SXC-1HT	150	500	80	0	
SZ1615KGN	RA-CML	MR073010	R1	CY2309SXC-1HT	150	1000	80	0	
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	150	500	80	0	
SZ1615KGN	RA-CML	MR074044	R1	CY2309NZSXC-1H	150	1000	80	0	
SZ1615KGN	RA-CML	NR072009	R1	CY2292SXI-1T1	150	1000	80	0	
SZ1615KGN	RA-CML	NR072009	R2	CY2292SXL-1X5T	150	1000	80	0	
SZ183AGAN	M-PHIL	MR064051	R1	CY7C63813-SXC	150	500	50	0	
SZ183AGAN	M-PHIL	MR064051	R1	CY7C63813-SXC	150	1000	50	0	
SZ183AGAN	M-PHIL	MR072028	R1	CY7C63723-SXC	150	500	80	0	
SZ183AGAN	M-PHIL	MR072028	R1	CY7C63723-SXC	150	1000	71	0	
SZ183CGAN	RA-CML	MR064009	R1	CY7C63723-SXC	150	1000	50	0	
SZ183CGAN	RA-CML	MR072026	R1	CY7C63723-SXC	150	500	80	0	
SZ183CGAN	RA-CML	MR072026	R1	CY7C63723-SXC	150	1000	80	0	
SZ183CGAN	RA-CML	MR073013	R1	CY7C63723-SXC	150	500	80	0	
SZ183CGAN	RA-CML	MR073013	R1	CY7C63723-SXC	150	1000	80	0	
SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	150	1000	80	0	

SZ183CGAN	RA-CML	MR074002	R1	CY7C63723C	150	500	80	0	
SZ2035GAL	R-CML	MR064053	R1	CY8C24223A-24SXI	150	1000	50	0	
SZ2035GAL	R-CML	MR072009	R1	CY8C24223A-24SXI	150	500	79	0	
SZ2035GAL	R-CML	MR072009	R1	CY8C24223A-24SXI	150	1000	79	0	
SZ24312GN	R-CML	MR074040	R1	CS6575AA	150	1000	80	0	
SZ24312GN	R-CML	MR074040	R1	CS6575AA	150	500	80	0	
SZ324513LN	R-CML	MR073007	R1	CY62128BNLL-70SXIT	150	500	80	0	
SZ324513LN	R-CML	MR073007	R1	CY62128BNLL-70SXIT	150	1000	80	0	
SZ324513N	R-CML	MR064074	R1	CY7C53120E4-40SXI	150	1000	50	0	
SZ32457LN	R-CML	MR072007	R1	CY62128ELL-45SXI	150	500	80	0	
SZ32457LN	R-CML	MR072007	R1	CY62128ELL-45SXI	150	1000	80	0	
SZ32457LN	R-CML	MR074005	R1	CG6707AM	150	500	80	0	
SZ32457LN	R-CML	MR074005	R1	CG6707AM	150	1000	80	0	
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	150	1000	80	0	
SZ815CGAN	M-PHILS	MR074023	R1	CY8C24123A-24SXIT	150	500	80	0	
SZ815DAGN	M-PHIL	MR071023	R1	CY2305SXC-1HT	150	500	80	0	
SZ815DAGN	M-PHIL	MR071023	R1	CY2305SXC-1HT	150	1000	80	0	
SZ815DAGN	M-PHIL	MR072002	R1	CY2305SXI-1H	150	500	79	0	
SZ815DAGN	M-PHIL	MR072002	R1	CY2305SXI-1H	150	1000	79	0	
<b>Summary for Package Family : SOIC (Pb-free) (40 records)</b>									
<b>Sum</b>							<b>3,357</b>	<b>0</b>	
<b>SSOP</b>									
O563AXAGN	R-CML	MR071027	R1	CY28419OC	150	500	80	0	
O563AXAGN	R-CML	MR071027	R1	CY28419OC	150	1000	80	0	
<b>Summary for Package Family : SSOP (12 records)</b>									
<b>Sum</b>							<b>160</b>	<b>0</b>	
<b>SSOP (Pb-free)</b>									
SP2023GAL	T-TAIWAN	MR071036	R1	CS6585AMT	150	500	78	0	
SP2023GAL	T-TAIWAN	MR071036	R1	CS6585AMT	150	1000	78	0	
SP2024AGL	M-PHIL	MR072011	R1	CG6646AA	150	500	80	0	
SP2024AGL	M-PHIL	MR072011	R1	CG6646AA	150	1000	80	0	
SP2026YAN	T-TAIWAN	MR071006	R1	CY8C21334-24PVXI	150	500	80	0	
SP2026YAN	T-TAIWAN	MR071006	R1	CY8C21334-24PVXI	150	1000	80	0	
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	150	500	80	0	
SP2029AAGL	RA-CML	MR074018	R1	CY8C21334-24PVXIT	150	1000	80	0	
SP2029AAGL	RA-CML	NR064003	R2	CY8C21334-24PVXI	150	500	80	0	
SP2029AAGL	RA-CML	NR064003	R2	CY8C21334-24PVXI	150	1000	80	0	
SP2029AAGL	RA-CML	NR064003	R3	CY8C21334-24PVXI	150	500	80	0	
SP2029AAGL	RA-CML	NR064003	R3	CY8C21334-24PVXI	150	1000	80	0	
SP2029AAGL	RA-CML	NR064003	R4	CY8C21334-24PVXI	150	500	80	0	
SP2029AAGL	RA-CML	NR064003	R4	CY8C21334-24PVXI	150	1000	80	0	
SP2814HAL	M-PHIL	MR064068	R1	CS6250AM	150	1000	50	0	
SP28214GL	T-TAIWAN	MR072004	R1	CY8C24423A-24PVXI	150	500	80	0	
SP28214GL	T-TAIWAN	MR072004	R1	CY8C24423A-24PVXI	150	1000	80	0	
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	150	1000	80	0	
SP28214GL	T-TAIWAN	MR074051	R1	CY8C24423A-24PVXI	150	500	80	0	
SP483AGAN	R-CML	MR072017	R1	CY7C63413C-PVXC	150	500	77	0	
SP483AGAN	R-CML	MR072017	R1	CY7C63413C-PVXC	150	1000	80	0	
SP48AAAAGR	M-PHIL	71101	1	CY14B101L-SP45XC	150	500	10	0	
SP48AAAAGR	M-PHIL	71101	1	CY14B101L-SP45XC	150	1000	10	0	
SP48AAAAGR	M-PHIL	71101	2	CY14B101L-SP25XC	150	500	25	0	
SP48AAAAGR	M-PHIL	71101	2	CY14B101L-SP25XC	150	1000	25	0	
SP48AAAAGR	M-PHIL	71101	3	CY14B101L-SP45XC	150	500	10	0	
SP48AAAAGR	M-PHIL	71101	3	CY14B101L-SP45XC	150	1000	10	0	
SP563AAGN	R-CML	MR071041	R1	CY28409OXT	150	500	80	0	
SP563AAGN	R-CML	MR071041	R1	CY28409OXT	150	1000	80	0	
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	150	500	80	0	
SP563AAGN	R-CML	MR074027	R1	CY7C68000-56PVX	150	1000	80	0	
SP563BAGL	R-CML	MR073055	R1	CP6603AMT	150	500	80	0	
SP563BBGL	T-TAIWAN	MR072029	R1	CY7C68013A-56PVXC	150	500	80	0	

SP563BBGL	T-TAIWAN	MR072029	R1	CY7C68013A-56PVXC	150	1000	80	0
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	150	500	80	0
SP563BBGL	T-TAIWAN	MR074059	R1	CY7C68014A-56PVXC	150	1000	79	0

**Summary for Package Family : SSOP (Pb-free) (54 records)**

**Sum** **2,452** **0**

**SOIC (J-Lead)**

V2831ALL	R-CML	MR074048	R1	CY7C199CN-15VCT	150	500	80	0
V2835GALN	R-CML	MR071001	R1	CY7C185-25VC	150	500	80	0
V2835GALN	R-CML	MR071001	R1	CY7C185-25VC	150	1000	80	0
V2835GALN	R-CML	MR073047	R1	CY7C185-15VI	150	500	80	0
V284CGAGGB	O-INDNS	MR071033	R1	CY7C106BN-15VC	150	500	77	0
V284CGAGGB	O-INDNS	MR071033	R1	CY7C106BN-15VC	150	1000	77	0
V284CGAGGB	O-INDS	MR073017	R1	CY7C107BN-15VC	150	1000	77	0
V32421GLN	R-CML	MR071050	R1	CY7C1019CV33-12VI	150	500	80	0
V32421GLN	R-CML	MR071050	R1	CY7C1019CV33-12VI	150	1000	80	0
V3646GALL	R-CML	MR073033	R1	CY7C1049CV33-	150	500	80	0
V3646GALL	R-CML	MR073033	R1	CY7C1049CV33-	150	1000	80	0

**Summary for Package Family : SOIC (J-Lead) (14 records)**

**Sum** **871** **0**

**SOIC (J-Lead, Pb-Free)**

VZ2439AGS	O-INDONESIA	MR064067	R1	CY7C187-25VXC	150	1000	50	0
VZ2439AGS	O-INDONESIA	MR071061	R1	CY7C187-35VXC	150	500	79	0
VZ2439AGS	O-INDONESIA	MR071061	R1	CY7C187-35VXC	150	1000	79	0
VZ2439AGS	O-INDS	MR073016	R1	CY7C187-25VXC	150	1000	77	0
VZ28311KLL	R-CML	MR073008	R1	CY7C1399BNL-15VXCT	150	500	80	0
VZ28311KLL	R-CML	MR073008	R1	CY7C1399BNL-15VXCT	150	1000	80	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	150	1000	80	0
VZ2835GKLN	R-CML	MR074033	R1	CY7C421-20VXC	150	500	80	0
VZ32421LL	R-CML	NR064001	R3	7C1319GC-RVZC	150	500	75	0
VZ32421LL	R-CML	NR064001	R3	7C1319GC-RVZC	150	1000	75	0
VZ32421LL	R-CML	NR064001	R5	7C1319GC-RVZC	150	500	78	0
VZ32421LL	R-CML	NR064001	R5	7C1319GC-RVZC	150	1000	78	0
VZ3644GALL	R-CML	MR064066	R1	CY7C1049B-15VXI	150	1000	50	0
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	150	1000	80	0
VZ3646GLL	R-CML	MR074001	R1	CY7C1049CV33-10VXCT	150	500	80	0
VZ3648GALL	R-CML	MR073032	R1	CY7C1049DV33-10VXIT	150	500	80	0
VZ3648GALL	R-CML	MR073032	R1	CY7C1049DV33-10VXIT	150	1000	80	0
VZ444ZALL	R-CML	MR071024	R1	CY7C1021CV33-10VXC	150	500	80	0
VZ444ZALL	R-CML	MR071024	R1	CY7C1021CV33-10VXC	150	1000	80	0

**Summary for Package Family : SOIC (J-Lead, Pb-free) (27 records)**

**Sum** **1,441** **0**

**TQFP**

A100SEGAGL	R-CML	MR073004	R1	CY7B994V-2AC	150	500	80	0
A100SEGAGL	R-CML	MR073004	R1	CY7B994V-2AC	150	1000	80	0
A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	150	1000	80	0
A32BVGBGB	Q-KOREA	MR074019	R1	CY7C4221V-15AC	150	500	80	0
A32BXGBGB	Q-KOREA	MR073040	R1	CY7C433-10AC	150	500	80	0
A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	150	1000	49	0
A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	150	1500	49	0
A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	150	2000	49	0
A52ASGAGE	Q-KOREA	MR064081	R1	CY7B9945V-5AC	150	2500	49	0
A52ASGAGE	Q-KOREA	MR071062	R1	CY7B9973V-AC	150	500	80	0
A52ASGAGE	Q-KOREA	MR071062	R1	CY7B9973V-AC	150	1000	80	0
AG120ABAGR	Q-KOREA	NR072017	R1	CYS25G0101DX-ATXC	150	500	80	0
AG120ABAGR	Q-KOREA	NR072017	R1	CYS25G0101DX-ATXC	150	1000	80	0

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

**Sum** **916** **0**

**TQFP (10 X 10)**

AS64AGAGB	Q-KOREA	MR073048	R1A	CY7C4235V-15ASC	150	500	80	0
-----------	---------	----------	-----	-----------------	-----	-----	----	---

**Summary for Package Family : TQFP (10 X 10) (0 record)**

Sum							80	0
<b>TQFP (Pb-free)</b>								
AZ100RIBLL	R-CML	71209	R1	CY7C1370D	150	500	80	0
AZ100RIBLL	R-CML	71209	R1	CY7C1370D	150	1000	80	0
AZ100RIBLL	CML-R	71211	R1	CY7C1370	150	1000	40	0
AZ100RIBLL	CML-R	71211	R1	CY7C1370	150	500	40	0
AZ100RIBLL	CML-R	71211	R2	CY7C1370	150	1000	40	0
AZ100RIBLL	CML-R	71211	R2	CY7C1370	150	500	40	0
AZ100RUAGN	R-CML	65105	R1	CY7C68013A-100AXC	150	500	50	0
AZ100RUAGN	R-CML	65105	R1	CY7C68013A-100AXC	150	1000	50	0
AZ100RUAGN	R-CML	65105	R1A	CY7C68013A-100AXC	150	500	30	0
AZ100RUAGN	R-CML	65105	R1A	CY7C68013A-100AXC	150	1000	30	0
AZ100RUAGN	R-CML	65105	R2	CY7C68013A-100AXC	150	500	80	0
AZ100RUAGN	R-CML	65105	R2	CY7C68013A-100AXC	150	1000	80	0
AZ100RUALN	R-CML	MR064076	R1	CY7C1345G-100AXC	150	1000	50	0
AZ100RULN	R-CML	MR064010	R1	CY7C1325G-133AXC	150	1000	50	0
AZ100RXLL	R-CML	MR071051	R1	CY7C1354CV25-166AXC	150	500	80	0
AZ100RXLL	R-CML	MR071051	R1	CY7C1354CV25-166AXC	150	1000	80	0
AZ100RXLL	R-CML	MR072033	R1	CY7C1360C-166AXI	150	500	80	0
AZ100RXLL	R-CML	MR072033	R1	CY7C1360C-166AXI	150	1000	80	0
AZ100SFAL	R-CML	MR073022	R1	CY7C1049DV33-10VXIT	150	500	80	0
AZ100SFAL	R-CML	MR073022	R1	CY7C1049DV33-10VXIT	150	1000	80	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	150	1000	80	0
AZ100SFAL	R-CML	MR074036	R1	CY7C025-25AXC	150	500	80	0
AZ128SALL	R-CML	MR072015	R1	CY7C64713-128AXC	150	500	80	0
AZ128SALL	R-CML	MR072015	R1	CY7C64713-128AXC	150	1000	80	0
AZ32BXGAN	Q-KOREA	MR073057	R1	CY7C4251-15AXC	150	500	80	0
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	150	1000	80	0
AZ32LXGAN	Q-KOREA	MR074020	R1	CY7C425-10AXC	150	500	80	0
AZ44SEGLL	R-CML	MR064061	R1	CY7C1011CV33-12AXI	150	1000	50	0
AZ44SFGAN	R-CML	MR073031	R1	CY37032VP44-100AXC	150	500	80	0
AZ44SFGAN	R-CML	MR073031	R1	CY37032VP44-100AXC	150	1000	80	0
AZ52ASGAL	Q-KOREA	MR064075	R1	CY7B9945V-2AXI	150	1000	47	0
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	150	500	80	0
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	150	1000	80	0
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	150	1500	79	0
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	150	2000	79	0
AZ52ASGAL	Q-KOREA	MR071005	R1	CY7B9945V-2AXI	150	2500	79	0
AZ64HXGAL	R-CML	MR072016	R1	CY7C4225-15AXC	150	500	77	0
AZ64HXGAL	R-CML	MR072016	R1	CY7C4225-15AXC	150	1000	77	0
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	150	1000	80	0
AZ64HXGAL	RA-CML	MR074007	R1	CY7C63723C	150	500	80	0

**Summary for Package Family : TQFP (Pb-free) (33 records)**

Sum							2,748	0
<b>TSOP (Pb-free)</b>								
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	150	500	80	0
ZT28R4AGL	R-CML	MR074045	R1	CY7C1399BNL-12ZXC	150	1000	80	0
ZT28RGLL	R-CML	MR073052	R1	CY7C199D-10ZXI	150	500	80	0
ZT32RABALL	T-TAIWAN	MR071049	R1	CY62128ELL-45ZXI	150	500	80	0
ZT32RABALL	T-TAIWAN	MR071049	R1	CY62128ELL-45ZXI	150	1000	80	0
ZT32RABALL	T-TAIWAN	MR073024	R1	CY62128ELL-45ZXIT	150	500	80	0
ZT32RABALL	T-TAIWAN	MR073034	R1	CY62128EV30LL-45ZXI	150	500	80	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	150	500	80	0
ZT32RADALL	RA-CML	MR074028	R1	CY62128ELL-45ZXI	150	1000	80	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	150	1000	45	0
ZT32RADALL	RA-CML	NR073006	R1	CY62128ELL-45ZXIT	150	500	45	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	150	500	45	0
ZT32RADALL	RA-CML	NR073006	R2	CY62128ELL-45ZXIT	150	1000	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	150	500	45	0
ZT32RADALL	RA-CML	NR073006	R3	CY62128ELL-45ZXIT	150	1000	37	0



ZT32RZALL	T-TAIWAN	MR064078	R1	CY7C109D-10ZXI	150	500	44	0	
ZT32RZALL	T-TAIWAN	MR064078	R1	CY7C109D-10ZXI	150	1000	44	0	
<b>Summary for Package Family : TSOP (Pb-free) (13 records)</b>									
<b>Sum</b>								<b>1,070</b>	<b>0</b>
<b>TSOP I (Pb-free)</b>									
ZB32RHALL	R-CML	NR072020	R1	CY62128BLL-70ZAXI	150	500	80	0	
ZB32RHALL	R-CML	NR072020	R1	CY62128BLL-70ZAXI	150	1000	80	0	
ZB32RHALN	R-CML	MR071021	R1	CY62128EV30LL-45ZAXI	150	500	79	0	
ZB32RHALN	R-CML	MR071021	R1	CY62128EV30LL-45ZAXI	150	1000	78	0	
ZB32RHALN	R-CML	MR073025	R1	CY62128EV30LL-45ZAXI	150	500	80	0	
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	150	1000	79	0	
ZB32RHALN	R-CML	MR074026	R1	CY62126EV30LL-45ZAXI	150	500	80	0	
ZB32RKALL	T-TAIWAN	MR064071	R1	CY62128ELL-45ZAXI	150	1000	50	0	
<b>Summary for Package Family : TSOP I (Pb-Free) (8 records)</b>									
<b>Sum</b>								<b>606</b>	<b>0</b>
<b>TSOP II</b>									
ZS444ABAL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	150	500	80	0	
ZS444ABALE	R-CML	MR061067	R1	CS6334AS	150	500	50	0	
ZS444ABALL	R-CML	MR074069	R1	CY7C1020CV33-12ZC	150	1000	80	0	
ZS444AJALN	R-CML	MR071022	R1	CY7C1021CV33-10ZI	150	500	80	0	
ZS444AJALN	R-CML	MR071022	R1	CY7C1021CV33-10ZI	150	1000	80	0	
ZS444RAGB	R-CML	MR073027	R1	CG6079AA	150	500	80	0	
ZS544AALE	G-TAIWAN	MR064044	R1	CY7C1069AV33-10ZC	150	1000	44	0	
<b>Summary for Package Family : TSOP II (17 records)</b>									
<b>Sum</b>								<b>494</b>	<b>0</b>
<b>TSOP II (Pb-free)</b>									
ZW324CBLL	T-TAIWAN	MR064047	R1	CY62148ELL-45ZSXI	150	1000	50	0	
ZW324FBGL	T-TAIWAN	MR071047	R1	CY7C1019CV33-15ZXC	150	500	80	0	
ZW324FBGL	T-TAIWAN	MR071047	R1	CY7C1019CV33-15ZXC	150	1000	80	0	
ZW324GALL	T-OSE	MR074042	R1	CY7C1019D-10ZSXI	150	500	80	0	
ZW444AJGN	R-CML	MR073012	R1	CY7C1021CV33-12ZXC	150	500	80	0	
ZW444AJGN	R-CML	MR073012	R1	CY7C1021CV33-12ZXC	150	1000	80	0	
ZW444AJLN	R-CML	MR064059	R1	CY7C1020CV26-15ZSXE	150	1000	80	0	
ZW444AJLN	R-CML	MR071048	R1	CY7C1020CV33-15ZSXE	150	1000	80	0	
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	150	1000	80	0	
ZW444AKALN	R-CML	MR074034	R1	CY7C1041CV33-10ZXC	150	500	80	0	
ZW544AAL	G-TAIWAN	MR071071	R2	CY7C1061AV33-10ZXC	150	500	80	0	
ZW544AAL	G-TAIWAN	MR071071	R2	CY7C1061AV33-10ZXC	150	1000	80	0	
ZW544AALL	G-TAIWAN	MR064024	R1	CY7C1061AV33-12ZXC	150	1000	49	0	
ZW544AALL	G-TAIWAN	MR071063	R1	CY7C1061AV33-12ZXC	150	500	79	0	
ZW544AALL	G-TAIWAN	MR071063	R1	CY7C1061AV33-12ZXC	150	1000	79	0	
ZW544AALL	G-TAIWAN	MR073058	R1	CY7C1069AV33-12ZXC	150	500	80	0	
ZW544AALL	G-TAIWAN	MR073058	R1	CY7C1069AV33-12ZXC	150	1000	80	0	
<b>Summary for Package Family : TSOP II (Pb-free) (22 records)</b>									
<b>Sum</b>								<b>1,297</b>	<b>0</b>
<b>EXPOSED TSOP (Pb-free)</b>									
ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXEC	150	500	80	0	
ZL2017AGN	M-Phils	MR074052	R1	CY27EE16FZXEC	150	1000	80	0	
<b>Summary for Package Family : EXPOSED TSOP (Pb-free) (22 records)</b>									
<b>Sum</b>								<b>160</b>	<b>0</b>
<b>RTSOP</b>									
ZR28R2AGN	R-CML	MR073030	R1	CY62256LL-70ZRIT	150	500	80	0	
<b>Summary for Package Family : RTSOP (1 record)</b>									
<b>Sum</b>								<b>80</b>	<b>0</b>
<b>RTSOP (Pb-free)</b>									
ZY28R2AGN	R-CML	MR073036	R1	CY7C4241-15JXC	150	1000	80	0	
<b>Summary for Package Family : RTSOP (Pb-free) (1 record)</b>									
<b>Sum</b>								<b>80</b>	<b>0</b>
<b>TSSOP</b>									
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	150	500	80	0	
Z0812TAGE	T-TAIWAN	MR074049	R1	CY2077ZC-111T	150	1000	80	0	

Z1613GAGB	T-TAIWAN	MR071009	R1	CY2308ZI-1H	150	500	80	0
Z1613GAGB	T-TAIWAN	MR071009	R1	CY2308ZI-1H	150	1000	74	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	150	500	80	0
Z1613GAGB	T-TAIWAN	MR074029	R1	CY2308ZC-1H	150	1000	80	0
Z1619GAGN	RA-CML	MR073011	R1	CY22050FI	150	500	80	0
Z1619GAGN	RA-CML	MR073011	R1	CY22050FI	150	1000	80	0
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	150	500	80	0
Z1620GAGN	RA-CML	MR074010	R1	CY22393FC	150	1000	80	0

**Summary for Package Family : TSSOP (14 records)**

**Sum** **794** **0**

**TSSOP (Pb-free)**

8L TSSOP	VIGILANT- Thailand	72303	R1	CY24904ZXC	150	500	77	0
8L TSSOP	VIGILANT- Thailand	72303	R1	CY24904ZXC	150	1000	77	0
ZZ1614HAN	T-TAIWAN	MR071054	R1	CY26049ZXI-36	150	500	80	0
ZZ1614HAN	T-TAIWAN	MR071054	R1	CY26049ZXI-36	150	1000	79	0
ZZ1619GAN	RA-CML	MR071057	R1	CY2309ZXI-1H	150	500	80	0
ZZ1619GAN	RA-CML	MR071057	R1	CY2309ZXI-1H	150	1000	80	0
ZZ1619GAN	RA-CML	MR073023	R1	CY22392ZXC-386	150	500	79	0
ZZ1619GAN	RA-CML	MR073023	R1	CY22392ZXC-386	150	1000	79	0
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	150	500	78	0
ZZ1619GAN	RA-CML	MR074013	R1	CY22393FXC	150	1000	78	0
ZZ2415GAL	CML-RA	NR072010	R1	CY22315ZXC	150	1000	74	0
ZZ2817AGL	RA-CML	MR071043	R1	CY28517ZXCT	150	500	80	0
ZZ2817AGL	RA-CML	MR071043	R1	CY28517ZXCT	150	1000	80	0
ZZ2817AGL	RA-CML	NR072006	R1	CY28517ZXC	150	500	80	0
ZZ2817AGL	RA-CML	NR072006	R1	CY28517ZXC	150	1000	80	0
ZZ2817AGL	RA-CML	NR072006	R2	CY28547ZXC	150	1000	75	0
ZZ2817AGL	RA-CML	NR072006	R3	CY24270ZXC	165	1000	80	0
ZZ5624BGN	R-CML	MR071002	R1	CY505YC56DT	150	500	80	0
ZZ5624BGN	R-CML	MR071002	R1	CY505YC56DT	150	1000	80	0
ZZ5624BGN	R-CML	MR072010	R1	CY505YC56DT	150	500	80	0
ZZ5624BGN	R-CML	MR072010	R1	CY505YC56DT	150	1000	80	0
ZZ6421GAGL	M-PHIL	NR064005	R1	7C885052DC-MZZC	150	500	50	0
ZZ6421GAGL	M-PHIL	NR064005	R1	7C885052DC-MZZC	150	1000	50	0
ZZ6421GAGL	M-PHIL	NR064005	R2	7C885052DC-MZZC	150	500	45	0
ZZ6421GAGL	M-PHIL	NR064005	R2	7C885052DC-MZZC	150	1000	43	0
ZZ6421GAGL	M-PHIL	NR064005	R3	7C885052DC-MZZC	150	500	45	0
ZZ6421GAGL	M-PHIL	NR064005	R3	7C885052DC-MZZC	150	1000	44	0

**Summary for Package Family : TSSOP (Pb-free) (37 records)**

**Sum** **1,933** **0**