



2012 Q2 RELIABILITY REPORT

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

This report summarizes Cypress Semiconductor Product Reliability for the period of the 2nd quarter of 2012. 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
LL65	1,615,866	1	7.4	19	Fab defect-1 (See Note 2)
C9	1,747,137	0	3	0	None
R8	57,252	0	Insufficient	0	None
S8	1,523,424	3	16.1	94	Fab defect-3 (See Note 3)
C8	78,163	0	Insufficient	0	None
R9	892,656	0	6.0	0	None
R7	857,664	0	6.3	0	None
S4	459,902	0	11.7	0	None
R52	14,400	0	Insufficient	0	None
L8	71,952	0	Insufficient	0	None
B53	61,905	0	Insufficient	0	None
Grand Total	7,380,320	4	4.2	23	See above

Notes: 1) Insufficient data – interpret as insufficient accumulated life-time hours to project a 60%confidence bound for a zero-fails sample.

2) Non-Visual Defect will be covered by continuous improvement at Fab

3) CAR 201201012 - NWM and O2 flash process fixes- STI process improvements



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.

Test : High Temperature Operating Life Test (HTOL)
Conditions : Dynamic Operating Conditions, VCC nominal +15% 150°C or 125°C.
Duration : 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)
Failure : A failure is any device that fails to meet data sheet electrical requirements.
Fit Rate : 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	PPM	Failure Mode
C8	326,201	0	17	0	None
LL65	886,730	0	6.1	0	None
C9	625,190	0	8.6	0	None
R9	286,504	0	18.8	0	None
R52	157,276	0	34	0	None
S8	569,468	0	9.5	0	None
S4	860,059	0	6.3	0	None
R95	16,258	0	Insufficient	0	None
R7	149,500	0	36.0	0	None
Grand Total	3,877,187	0	1.4	0	None

Note: 1) 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 150°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 Acceleration Factor 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 reliability at nominal system ambient temperature is related to the failure rate at elevated temperatures through the Acceleration Factor equation.

Table 3. Data Retention Summary

Technology	Device Hours	# Failed	FIT Rate	Failure Mode
S4	11,952,000	0	0.21	None
S8	6,695,900	0	0.34	None
Total	18,647,900	0	0.13	None

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.

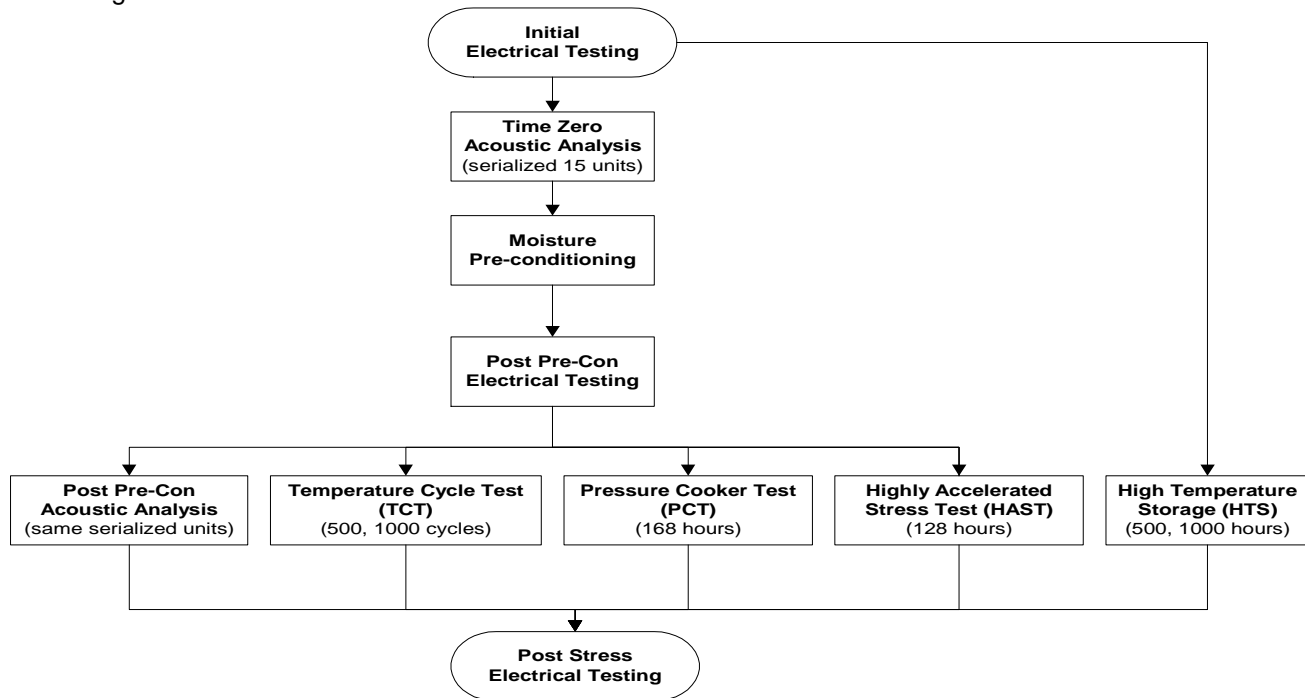


Figure 1. Cypress Package Reliability Stress Flow



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
UFPGA (Pb-free)	154	0	0	0
FBGA (0.75-0.8, 0.3mm)	90	0	0	0
FBGA (0.75-0.8, 0.3mm, Pb-free)	965	0	0	0
FBGA (1.0-1.27)	530	0	0	0
FBGA (1.0-1.27, Pb-free)	1983	0	0	0
PBGA (1.27)	58	0	0	0
FLIPCHIP CSP (Pb-Free)	1346	0	0	0
PBGA (Cavity/Heat Sink, Pb-free)	428	0	0	0
PDIP (Pb-Free)	476	0	0	0
PLCC (Pb-Free)	338	0	0	0
PQFP (Pb-free)	364	0	0	0
QFN (COL, 0.6mm, Saw Type, Pb-free)	2043	0	0	0
QFN (0.6mm, Punch Type, Pb-Free)	30	0	0	0
QFN (Punch Type, Pb-Free)	420	0	0	0
QFN (Saw Type, Pb-Free)	9565	0	0	0
QSOP (Pb-Free)	140	0	0	0
SNC (Pb-Free)	120	0	0	0
SOIC (Pb Free)	3759	0	0	0
SOJ	60	0	0	0
SOJ (Pb-Free)	596	0	0	0
SSOP (Pb-Free)	1680	0	0	0
TQFP	50	0	0	0
TQFP (Pb-Free)	2037	0	0	0
TSOP (Pb-free)	338	0	0	0
TSOP I (Pb-Free)	320	0	0	0
TSOP II (Pb-Free)	1303	0	0	0
RTSOP (Pb-free)	60	0	0	0
TSSOP (Pb-Free)	1280	0	0	0
VFBGA (0.75-0.8, 0.3mm)	329	0	0	0
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	2116	0	0	0
Grand Total	32,978	0	0.00%	None



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
UFBGA (Pb-free)	77	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	382	0	0	None
FBGA (1.0-1.27)	60	0	0	None
FBGA (1.0-1.27, Pb-free)	1,202	0	0	None
PDIP (Pb-Free)	180	0	0	None
PLCC (Pb-Free)	60	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	1,358	0	0	None
QFN (Punch Type, Pb-Free)	120	0	0	None
QFN (Saw Type, Pb-Free)	4,125	0	0	None
QSOP (Pb-Free)	25	0	0	None
SNC (Pb-Free)	60	0	0	None
SOIC (Pb Free)	881	0	0	None
SOJ	57	0	0	None
SOJ (Pb-Free)	229	0	0	None
SSOP (Pb-Free)	682	0	0	None
TQFP	25	0	0	None
TQFP (Pb-Free)	394	0	0	None
TSOP (Pb-free)	110	0	0	None
TSOP I (Pb-Free)	85	0	0	None
TSOP II (Pb-Free)	270	0	0	None
RTSOP (Pb-free)	30	0	0	None
TSSOP (Pb-Free)	90	0	0	None
VFBGA (0.75-0.8, 0.3mm)	144	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	119	0	0	None
Grand Total	10,765	0	0.00%	None

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
UFBGA (Pb-free)	460	0	0	None
FBGA (0.75-0.8, 0.3mm)	30	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	2,019	0	0	None
FBGA (1.0-1.27)	877	0	0	None
FBGA (1.0-1.27, Pb-free)	3,048	0	0	None
PBGA (1.27)	60	0	0	None
FLIPCHIP CSP (Pb-Free)	4,642	0	0	None
PBGA (Cavity/Heat Sink)	464	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	582	0	0	None
PDIP (Pb-Free)	624	0	0	None
PLCC (Pb-Free)	1,065	11	1.03%	11-Cut Wedge (See Note 1)
PQFP (Pb-free)	578	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	4,319	0	0	None
QFN (Punch Type, Pb-Free)	400	0	0	None
QFN (Saw Type, Pb-Free)	16,888	0	0	None
QSOP (Pb-Free)	55	0	0	None
SNC (Pb-Free)	120	0	0	None
SOIC	20	0	0	None
SOIC (Pb Free)	3,955	0	0.00%	None
SOJ	60	0	0	None
SOJ (Pb-Free)	490	0	0	None
SSOP (Pb-Free)	5,085	0	0	None
TQFP (Pb-Free)	3,797	0	0	None
TSOP (Pb-free)	280	0	0	None
TSOP I (Pb-Free)	230	0	0	None
TSOP II (Pb-Free)	1,744	0	0	None
RTSOP (Pb-free)	60	0	0	None
TSSOP (Pb-Free)	1,845	0	0	None
VFBGA (0.75-0.8, 0.3mm)	295	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	2,424	0	0	None
Grand Total	56,516	11	0.02%	See Above

Note :

- 1) CAR 201140020 – On-going root cause analysis

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
UFBGA (Pb-free)	303	0	0	None
FBGA (0.75-0.8, 0.3mm)	30	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	574	0	0	None
FBGA (1.0-1.27)	447	0	0	None
FBGA (1.0-1.27, Pb-free)	2,160	0	0	None
PBGA (1.27)	60	0	0	None
FLIPCHIP CSP (Pb-Free)	885	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	90	0	0	None
PDIP (Pb-Free)	540	0	0	None
PLCC (Pb-Free)	389	0	0	None
PQFP (Pb-free)	400	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	1,770	0	0	None
QFN (Punch Type, Pb-Free)	210	0	0	None
QFN (Saw Type, Pb-Free)	11,379	0	0	None
QSOP (Pb-Free)	80	0	0	None
SNC (Pb-Free)	150	0	0	None
SOIC (Pb Free)	1,987	0	0	None
SOJ	60	0	0	None
SOJ (Pb-Free)	498	0	0	None
SSOP (Pb-Free)	1,030	0	0	None
TQFP	50	0	0	None
TQFP (Pb-Free)	1,374	0	0	None
TSOP (Pb-free)	220	0	0	None
TSOP I (Pb-Free)	230	0	0	None
TSOP II (Pb-Free)	568	0	0	None
RTSOP (Pb-free)	60	0	0	None
TSSOP (Pb-Free)	805	0	0	None
VFBGA (0.75-0.8, 0.3mm)	240	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	863	0	0	None
Grand Total	27,452	0	0.00%	None



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 = 8.62×10^{-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 (8.62×10^{-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.

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

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

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

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

Similarly, for 140 °C HAST testing,

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

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

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

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



APPENDIX A: FAILURE RATE CALCULATION (cont.)

Failure Rate Calculation

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

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

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

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

where:

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

n = number of failure.

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

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

APPENDIX B: TEMPERATURE CYCLING STRESS MODELS

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

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

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_{mold}), and maximum during the lowest temperature reached during temperature cycling, (T_{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_{min} and T_{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.

$$DF \text{ (between 125C and 150C)} = \exp \left(\frac{0.7}{k} \left[\frac{1}{150 + 15 + 273} - \frac{1}{125 + 15 + 273} \right] \right) = 0.326$$

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

Temperature Cycling

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

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

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

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

HAST

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

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



Appendix D - RELIABILITY DATA



FROM: 07/02/2011

TO: 07/01/2012

Summary Detail -- EFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
LL65												
	MPD	113301	R3-Split 1	C1514KV18-250BZXC	125	2.05	96	96	1617	0		
	MPD	113301	R3-Split 2	C1514KV18-250BZXC	125	2.05	96	96	4204	0		
	MPD	113301	R3-Split 3	C1514KV18-250BZXC	125	2.05	96	96	118	0		
	MPD	113301	R3-Split 4	C1514KV18-250BZXC	125	2.05	96	96	113	0		
	MPD	MR112071	R1	CY7C1512KV18-250BZXC	125	2.05	96	96	7400	0		
	DCD	113007	R1	CY7C1512KO	125	1.95	96	96	1500	0		
	DCD	102402	R2- Split 2	CYUSB3014-BZXIES	125	3.795	96	96	1305	0		
	DCD	102402	R2- Split 3	CYUSB3014-BZXIES	125	3.795	96	96	944	0		
	DCD	102402	R3- Split 1	CYUSB3014-BZXIES	125	3.795	96	96	1305	0		
	DCD	102402	R3- Split 2	CYUSB3014-BZXIES	125	3.795	96	96	1214	0		
	DCD	102402	R4	CYUSB3014-BZXIES	125	3.795	96	96	1008	0		
	MPD	112604	R1-Split1	7C1570QXO-**RABWC	125	5.0	96	96	1187	0		
	MPD	112604	R1-Split2	7C1570QXO-**RABWC	125	5.0	96	96	1097	0		
	MPD	112604	R1-Split3	7C2565QXO-**RABWC	125	5.0	96	96	411	1	SABH-113	No Visual Defect
	MPD	112604	R1-Split4	7C1570QXO-**RABWC	125	5.0	96	96	428	0		
	MPD	112604	R1-Split5	7C1570QXO-**RABWC	125	5.0	96	96	533	0		
	MPD	112604	R1-Split6	7C1570QXO-**RABWC	125	5.0	96	96	508	0		
	MPD	112604	R2	7C2565QXO-**RABWC	125	5.0	96	96	2880	0		
	MPD	MR114084	R1	CY7C1312KV18-250BZXC	125	5.0	96	96	2485	0		
	MPD	MR114084	R1	CY7C1312KV18-250BZXC	125	5.0	96	96	3400	0		
	MPD	MR121071	R1	CY7C1512KV18-250BZXC	125	5.0	96	96	3400	0		



MPD	MR121071	R1	CY7C1512KV18-250BZXC	125	5.0	96	96	3217	0
MPD	MR113063	R1	CYUSB3014-BZXIES	125	3.8	96	96	1008	0
MPD	MR113063	R3	CY7C12501KV18-400BZC	125	1.95	48	48	1780	0
DCD	114603	R3	CYUSB3014-BZXIES	125	3.795	96	96	1035	0
DCD	114603	R4-Split 1	CYUSB3014-BZXIES	125	3.795	96	96	945	0
DCD	114603	R4-Split 2	CYUSB3014-BZXIES	125	3.795	96	96	89	0
DCD	114603	R5-Split 1	CYUSB3014-BZXI	125	3.795	96	96	855	0
DCD	114603	R5-Split 2	CYUSB3014-BZXI	125	3.795	96	96	180	0
DCD	MR122072	R1	CY7C1564XV18-366BZXC	125	5.0	96	96	665	0
DCD	MR122072	R2	CY7C1512KV18-250BZXC	125	1.95	96	96	3994	0
DCD	MR122072	R3	CY7C1512KV18-250BZXC	125	1.95	96	96	2244	0

Summary for Technology: LL65

32 records

Sum

53,069 1

C9

MPD	MR113041	R1	CY7C1041DV33-10ZSXI	150	3.77	48	48	5400	0
MPD	104606	R1	CYRS1049DV33	150	3.77	48	48	1606	0
MPD	104606	R2	CYRS1049DV33	150	3.77	48	48	3197	0
MPD	113303	R1	CY7C1081DV33-12BAXI	110	3.5	48	48	130	0
MPD	113303	R3	CY7C1081DV33-12BAXI	110	3.5	48	48	130	0



MPD	MR121088	R1	7C1071NC-**GBKI	125	3.77	96	96	140	0
MPD	MR113093	R1	CY7C1041DV33-10ZSXI	150	3.77	48	48	7227	0
MPD	MR113094	R1	7M1043NC-**RZWMB	150	3.77	48	48	3197	0
MPD	MR113094	R2	7M1043NC-**RZWMB	150	3.77	48	48	1606	0
MPD	MR114098	R1	7C1081NC-**GQBKIB	110	3.5	168	168	765	0
MPD	MR113097	R1	7C13511NC-**GZWIB	125	3.77	96	96	1118	0
MPD	MR113097	R2	7C13511NC-**GZWIB	125	3.77	96	96	1378	0
MPD	120701	R1	CY7C1041DV33-10ZSXI	150	5	48	48	10919	0

Summary for Technology: C9 13

records

Sum

36,813 0

R8

MPD	112504	R1	7G62162DK	125	2.4	24	24	19	0
MPD	112504	R1	7G62162DK	125	2.4	96	96	1844	0

Summary for Technology: R8 2

records

Sum

1,863 0

S8

CCD	113002	R1	CY8C3866AXI-040	150	2.07	48	48	1489	0
CCD	MR104081	R1	CY8CTST200A-32LQXIES	150	2.1	72	72	327	0
CCD	MR102075	R1	CY8C20466-24LQXI	150	2.1	72	72	109	0
CCD	MR112061	R3	CY8CTMA340-48LQI-01	150	2.07	72	72	169	0
CCD	MR112061	R4	CG7382AMT	150	2.07	48	48	193	0
CCD	MR112061	R4	CG7382AMT	150	2.07	48	48	480	0
CCD	113211	R1-Split 1	CY8CTMA340-48LQI-09	150	2.07	48	48	485	0
CCD	113211	R1-Split 2	CY8CTMA340-48LQI-09	150	2.07	48	48	486	0
CCD	113211	R1-Split 3	CY8CTMA340-48LQI-09	150	2.07	48	48	412	0
CCD	113211	R2- Split 1	CY8CTMA340-48LQI-09	150	2.07	48	48	520	0
CCD	113211	R2- Split 2	CY8CTMA340-48LQI-09	150	2.07	48	48	518	0
CCD	113211	R2- Split 3	CY8CTMA340-48LQI-09	150	2.07	48	48	418	0
CCD	113211	R2- Split 4	CY8CTMA340-48LQI-09	150	2.07	48	48	102	0
MPD	113302	R1	CY8C20236A-24LKXA	150	2.1	48	48	625	0



MPD	113302	R3	CY8C20236A-24LKXA	150	2.1	24	24	910	0
MPD	113302	R2- Split 1	CY8C20236A-24LKXA	150	2.1	48	48	726	0
MPD	113302	R2	CY8C20236A-24LKXA	150	2.1	24	24	181	0
CCD	113905	R1- Split 1	CY8CTMA443-48LQIES2	150	5.75	48	48	791	0
CCD	113905	R1- Split 2	CY8CTMA443-48LQIES2	150	5.75	48	48	701	0
CCD	113905	R1A- Split 1	CY8CTMA463-48LQIES2	150	5.75	48	48	840	1
CCD	113905	R1A- Split 2	CY8CTMA463-48LQIES2	150	5.75	48	48	234	1
CCD	113905	R1B	CY8CTMA400-48LQIES2	150	5.75	48	48	418	1
CCD	113905	R2- Split 1	CY8CTMA443-48LQIES2	150	5.75	48	48	847	0
CCD	113905	R2- Split 2	CY8CTMA443-48LQIES2	150	5.75	48	48	653	0
CCD	113905	R3A	CY8CTMA443-48LQIES	150	5.75	48	48	45	0
CCD	113905	R4-Split 1	CY8CTMA443-48LQIES	150	5.75	48	48	56	0
CCD	113905	R4-Split 2	CY8CTMA443-48LQIES	150	5.75	48	48	944	0
CCD	113905	R5A	CY8CTMA443-48LQIES	150	5.75	48	48	500	0
CCD	114110	R1B	CY8C5568AXI-060	150	2.07	48	48	118	0
CCD	114110	R2B	CY8C5568AXI-060	150	2.07	48	48	1443	0
CCD	114003	R1A-Split 1	CY8C20467-24LQXI	150	2.1	48	48	824	0
CCD	114003	R1A-Split 2	CY8C20467-24LQXI	150	2.1	48	48	676	0
CCD	114103	R2-Split 1	CY8CTMA340-48LQI-09	150	2.07	48	48	515	0
CCD	114103	R2-Split 2	CY8CTMA340-48LQI-09	150	2.07	48	48	514	0
CCD	114103	R2-Split 3	CY8CTMA340-48LQI-09	150	2.07	48	48	514	0
CCD	MR113061	R6	8C20401AC-***RALQI	150	5.75	48	48	556	0
CCD	MR113096	R1	CY8C5568AXI-060	150	6.0	48	48	54	0
CCD	MR114049	R1-Split 1	CY8CTMA443-48LQIES2	150	5.75	48	48	847	0
CCD	MR114049	R1-Split 2	CY8CTMA443-48LQIES2	150	5.75	48	48	653	0
CCD	MR114099	R1	CY8C3866AXI-040	150	2.07	48	48	1592	0
CCD	MR121089	R1	CY8C3446AXI-099	150	2.07	48	48	977	0
CCD	MR121065	R2	CY8CTMA463-48LQI	150	2.07	48	48	646	0
CCD	MR121065	R3-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	844	0
CCD	MR121065	R3-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	655	0
CCD	MR121090	R1	CY8C20466A-24LQXI	150	5.5	48	48	50	0

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CCD	MR121090	R2	CY8C20466A-24LQXI	150	5.5	48	48	50	0
CCD	MR121090	R3	CY8C20466A-24LQXI	150	5.5	48	48	50	0
CCD	121105	R1	CY8CTMA443-48LQI	150	2.07	48	48	2	0
CCD	121105	R1-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	441	0
CCD	121105	R1-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	345	0
CCD	121105	R1-Split 3	CY8CTMA443-48LQI	150	2.07	48	48	244	0
CCD	121105	R2-Split1	CY8CTMA443-48LQI	150	2.07	48	48	242	0
CCD	121105	R2-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	628	0
CCD	121105	R2-Split 3	CY8CTMA443-48LQI	150	2.07	48	48	160	0
CCD	121105	R3-Split 1	CY8CTMA443-48LQI	150	2.07	96	96	97	0
CCD	121105	R3-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	500	0
CCD	121105	R3-Split 3	CY8CTMA443-48LQI	150	2.07	48	48	421	0
CCD	120502	R3-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	829	0
CCD	120502	R3-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	183	0
CCD	120502	R4-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	630	0
CCD	120502	R4-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	386	0
CCD	120502	R5-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	829	0
CCD	120502	R5-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	158	0
CCD	120502	R5-Split 3	CY8CTMA443-48LQI	150	2.07	48	48	32	0

Summary for Technology: S8

64

records

Sum

31,884

3

C8

DCD	MR112074	R1	CYWB0124AB-BVXI	125	3.8	96	96	278	0
DCD	MR112074	R1	CYWB0124AB-BVXI	125	3.8	96	96	577	0
DCD	MR112074	R1	CYWB0124AB-BVXI	125	3.8	96	96	100	0
DCD	MR112075	R1	CYWB0124AB-BVXI	125	3.8	96	96	429	0
DCD	MR112075	R1	CYWB0124AB-BVXI	125	3.8	96	96	140	0
DCD	MR113058	R1- Split 1	CYWB0124AB-BVXI	125	3.8	96	96	576	0
DCD	MR113058	R1- Split 2	CYWB0124AB-BVXI	125	3.8	96	96	424	0



Summary for Technology: C8 7 records 2,524

R9

MPD	MR113070	R1A	CY7C1350G-200AXC	150	2.25	48	48	300	0
MPD	MR113070	R1	CY7C1350G-200AXC	150	2.25	48	48	10080	0
MPD	MR114054	R1	CY7C1460AV33-167AXI	150	2.25	48	48	797	0
MPD	103005	R1	CYRS1545AV18-250GC	150	5.0	1000	1000	45	0
MPD	MR114062	R1	CY7C1380D-167AXC	150	2.25	264	264	997	0
MPD	MR122066	R1	CY7C1350G-200AXC	150	2.25	48	48	999	0

Summary for Technology: R9 6 records 13,218 0

Sum

R7

MPD	MR112072	R1	CY7C1041CV33-20ZSXE	150	2.3	48	48	10999	0
MPD	MR113062	R1	CY7C1041CV33-20ZSXE	150	2.3	48	48	5805	0
MPD	MR114060	R1	CY7C1049CV33-10VXCT	150	2.3	48	48	1064	0

Summary for Technology: R7 3 records 17,868 0

Sum

S4

CCD	MR113044	R1	CY8C24423A-24PVXI	125	5.5	96	96	1031	0
CCD	MR113042	R1	CY8C24533-24PVXI	125	5.5	96	96	1000	0
CCD	MR112041	R2	CY8C24533-24PVXI	125	5.5	96	96	999	0
CCD	111402	R1	CY8C29466-24PVXI	150	5	96	96	1500	0
CCD	MR114052	R1	CP6832AMT	125	5.5	96	96	1071	0
MPD	MR121070	R1	CY8C24533-24PVXI	125	5.5	96	96	1000	0
CCD	MR122063	R1	CY8C24533-24PVXI	150	5.5	96	96	1000	0
CCD	MR114050	R1	CY8C24533-24PVXI	125	5.5	96	96	1000	0
CCD	MR122065	R1	CY8C27443-24PVXIT	125	5.5	96	96	1000	0

Summary for Technology: S4 8 records 9,601 0

Sum

R52

MPD	MR112076	R1	CY7C1399BN-12VXI	150	3.8	48	48	300	0
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Summary for Technology: R52		1	records							
Sum									300	0
L8										
MPD	111001	R1- Split 1	CY5077SXC	150	2	48	48	605	0	
MPD	111001	R1- Split 2	CY5077SXC	150	2	48	48	604	0	
MPD	111001	R1- Split 3	CY5077SXC	150	2	48	48	290	0	
Summary for Technology: L8		3	records							
Sum									1,499	0
B53										
DCD	114004	R4-Split 1	CYRF6936-40LTXCKG	125	3.8	96	96	499	0	
DCD	114004	R4-Split 2	CYRF6936-40LTXCKG	125	3.8	96	96	500	0	
DCD	114004	R5-Split 1	CYRF6936-40LTXCKG	125	3.8	96	96	500	0	
DCD	114004	R5-Split 2	CYRF6936-40LTXCKG	125	3.8	96	96	500	0	
Summary for Technology: B53		4	records							
Sum									1,999	0



Summary Detail -- LFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
C8												
	DCD	MR111066	R1	CYWB0224ABS-BVXI	125	3.8	1024	1000	426	0		
	MPD	MR112074	R1	CYWB0124AB-BVXI	125	3.8	1000	1000	278	0		
	MPD	MR112075	R1	CYWB0124AB-BVXI	125	3.8	1000	100	297	0		
Summary for Technology: C8			3	records					1,001	0		
Sum										1,001	0	
LL65												
	DCD	102402	R1	CYUSB3014-BZXIES	125	3.3	1000	1000	175	0		
	DCD	102402	R2	CYUSB3014-BZXIES	125	3.3	1000	1000	180	0		
	DCD	102402	R3	CYUSB3014-BZXIES	125	3.795	1000	1000	180	0		
	DCD	MR112071	R1	CY7C1512KV18-250BZXC	125	2.05	1000	1000	299	0		
	DCD	112604	R1A-Split 1	CY7C2565XV18-633BZXC	125	1.95	168	168	118	0		
	DCD	112604	R1A-Split 2	CY7C2565XV18-633BZXC	125	1.95	216	216	58	0		
	DCD	MR113063	R1A	CY7C1512KV18-250BZXI	125	2.05	168	168	300	0		
	MPD	MR113063	R3	CY7C12501KV18-400BZC	125	1.95	596	596	1772	0		
	MID	MR113063	R1A	CY7C1512KV18-250BZXI	125	2.05	1000	1000	300	0		
	DCD	114603	R3	CYUSB3014-BZXIES	125	3.795	1000	1000	180	0		
	DCD	114603	R2	CYUSB3014-BZXIES	125	3.795	1000	1000	180	0		
	MPD	120610	R1	CY7C1512KV18-250BZXC	125	1.95	1000	1000	116	0		
Summary for Technology: LL65			12	records					3,858	0		
Sum										3,858	0	
C9												
	MPD	113303	R1	CY7C1081DV33-12BAXI	110	3.5	1000	1000	127	0		
	MPD	113201	R11	7A1221NC	125	2.5	1000	1000	100	0		



	CCD	MR104081	R1	CY8CTST200A-32LQXIES	150	2.1	80	80	323	0
	CCD	MR113061	R6	8C20401AC-**RALQI	150	5.75	80	80	552	0
	CCD	MR113096	R1	CY8C3866AXI-040	150	2.07	500	500	142	0
	CCD	NR121001	R1	CY8C20236A-24LKXI	150	2.1	500	80	80	0
	Summary for Technology: S8		12	records						
	Sum								2,362	0
	S4									
	CCD	MR111062	R1	CG7264AM	125	5.25	1000	1000	298	0
	CCD	111402	R1	CY8C29466-24PVXI	125	5.5	1024	1024	116	0
	CCD	MR112041	R1	CY8C24533-24PVXI	125	5.5	1000	1000	300	0
	CCD	MR113044	R1	CY8C24423A-24PVXI	125	5.5	1000	1000	329	0
	CCD	MR113042	R1	CY8C24533-24PVXI	125	5.5	1000	1000	299	0
	CCD	MR114052	R1	CP6832AMT	125	5.5	192	192	300	0
	CCD	MR104039	R1	CY8C24533-24PVXI	125	5.5	480	480	760	0
	CCD	MR114050	R1	CY8C24533-24PVXI	125	5.5	1000	1000	300	0
	MPD	MR121070	R1	CY8C24533-24PVXI	125	5.5	1000	1000	300	0
	CCD	MR122063	R1	CY8C24533-24PVXI	125	5.5	1000	1000	299	0
	Summary for Technology: S4		10	records						
	Sum								3,301	0
	R95									
	M	MR111077	R2	CY62146EV30LL-45ZSXI	125	1.85	168	168	300	0
	Summary for Technology: R95		1	records						
	Sum								300	0
	R7									
	MPD	MR114060	R1	CY7C1049CV33-10VXCT	150	2.3	500	500	299	0
	Summary for Technology: R7		1	records						
	Sum								299	0



Summary Detail -- DRET Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS	
S4													
	CCD	MR111062	R1	CG7264AM	150	0	3500	3500	80	0			
	CCD	MR111062	R1	CG7264AM	175	0	3500	3500	80	0			
	CCD	MR112055	R1	CY8C29466-24PVXI	150	0	1000	1000	80	0			
	CCD	MR102077	R1	CY8C24533-24PVXI	175	0	3500	3500	80	0			
	CCD	MR104039	R1	CY8C24533-24PVXI	175	0	2000	2000	80	0			
	CCD	MR112041	R1	CY8C24533-24PVXI	150	0	2000	2000	80	0			
	CCD	MR112041	R1	CY8C24533-24PVXI	175	0	1000	1000	80	0			
	CCD	MR112055	R1	CY8C29466-24PVXI	175	0	2000	2000	80	0			
	CCD	MR113026	R1	CY8C29466-24PVXI	150	0	2000	2000	80	0			
	CCD	MR113026	R1	CY8C29466-24PVXI	175	0	2000	2000	80	0			
	CCD	MR113027	R1	CY8C24533-24PVXI	150	0	2000	2000	80	0			
	CCD	MR113027	R1	CY8C24533-24PVXI	175	0	3500	3500	80	0			
	CCD	MR114090	R1	CY8C29466-24PVXI	150	0	2000	2000	80	0			
	CCD	MR114090	R1	CY8C29466-24PVXI	175	0	2000	2000	80	0			
	CCD	MR114091	R1	CY8C29466-24PVXIT	150	0	1000	1000	80	0			
	CCD	MR114091	R1	CY8C29466-24PVXIT	175	0	1000	1000	80	0			
	CCD	MR114093	R1	CY8C21534-24PVXI	150	0	1000	1000	80	0			
	CCD	MR121081	R1	CY8C24533-24PVXI	175	0	500	500	80	0			
	CCD	MR121081	R1	CY8C24533-24PVXI	150	0	500	500	80	0			
	Summary for Technology: S4			19	records								
	Sum								1,520	0			



S8

CCD	110905	R1	CY8C5588AXI-060ES1	150	0	1000	1000	77	0
CCD	110905	R3	CY8C5588AXI-060ES1	150	0	1000	1000	80	0
CCD	MR104040	R1	CY8CTMG200-32LQXI	175	0	3500	3500	80	0
CCD	MR111068	R1	CY8C20466-24LQXI	150	0	3500	3500	73	0
CCD	MR113082	R1	CY8C20436A-24LQXIT	150	0	1000	1000	80	0
CCD	MR111068	R1	CY8C20466-24LQXI	175	0	3500	3500	78	0
CCD	MR111079	R1	CY8C20446A-24LQXIT	150	0	2000	2000	80	0
CCD	MR111079	R1	CY8C20446A-24LQXIT	150	0	1000	1000	80	0
CCD	MR112062	R1	CY8C20446A-24LQXIT	150	0	2000	2000	80	0
CCD	MR112062	R1	CY8C20446A-24LQXIT	175	0	2000	2000	79	0
CCD	MR113082	R1	CY8C20436A-24LQXIT	175	0	1000	1000	80	0
CCD	MR114086	R1	CY8C20446A-24LQXIT	150	0	1000	1000	77	0
CCD	MR114087	R1	CY8C20446A-24LQXIT	150	0	1000	1000	72	0
CCD	MR121076	R1	CY8C29466-24PVXI	150	0	1000	1000	80	0
CCD	MR121076	R1	CY8C29466-24PVXI	175	0	1000	1000	80	0

Summary for Technology: S8

15

records

Sum

1,176

0



FROM: 07/02/2011
TO: 07/01/2012

Summary Detail -- HAST Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
UFBGA (Pb-free)											
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	130	5.5	128	77	0		
Summary for Package Family: UFBGA (Pb-free)			1	records							
Sum								77	0		
FBGA (0.75-0.8, 0.3mm, Pb-free)											
BK48DJALL	G	MR112036	R1	CY62177DV30LL-55BAXI	110	3.6	264	30	0		
BK121BGAGL	RA	102402	R2	CYUSB3014-BZXIES	130	3.63	128	81	0		
BK121BGAGL	RA	102402	R2	CYUSB3014-BZXIES	130	3.63	256	81	0		
BK48DZAAAL	G	113303	R1	CY7C1081DV33-12BAXI	110	3.65	264	80	0		
BK48DLBLL	G	MR113033	R1	CY62187EV30LL-55BAXI	110	3.6	264	30	0		
BK121BGAGL	RA	114603	R2	CYUSB3014-BZXIES	130	0	128	80	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)			6	records							
Sum								382	0		
FBGA (1.0-1.27)											
BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	110	1.95	264	30	0		
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	130	1.95	128	30	0		



Summary for Package Family: FBGA (1.0-1.27)

2

records

Sum

60

0

FBGA (1.0-1.27, Pb-free)

BW209FAALL	GQ	102505	R5	CYF0072V33L-133BGXI	110	2.05	264	76	0
BW165BUALL	G	113007	R1	CY7C1512KO	110	1.95	264	78	0
BW165BUALL	G	113007	R2	CY7C1512KO	130	1.95	128	80	0
BW165RJALL	RA	MR113074	R1	CY7C1412KV18-250BZXI	130	1.95	128	30	0
BW165RJALL	RA	MR114039	R1	CY7C1412KV18-250BZXI	130	1.95	128	29	0
BW165RTALL	RA	120609	R1-Split 1	CY7C16131KV18-300BZXC	130	1.95	128	40	0
BW165RTALL	RA	120609	R1-Split 2	CY7C16131KV18-300BZXC	130	1.95	128	40	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	130	1.95	192	25	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	130	1.95	500	20	0
BW165RTALL	RA	120609	R2- Split 1	CY7C16131KV18-300BZXC	130	1.95	128	40	0
BW165RTALL	RA	120609	R2- Split 2	CY7C16131KV18-300BZXC	130	1.95	128	40	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	130	1.95	192	25	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	130	1.95	128	80	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	130	1.95	192	25	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	130	1.95	500	25	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	130	1.95	128	80	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	130	1.95	192	25	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	130	3.6	128	79	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	130	3.6	192	50	0
BW165BUALL	G	120612	R1-Split 1	CY7C1512KV18-250BZXC	130	1.8	128	26	0
BW165BUALL	G	120612	R1-Split 2	CY7C1512KV18-250BZXC	130	1.8	128	55	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	130	1.8	192	25	0
BW165BUALL	G	120612	R2-Split 1	CY7C1512KV18-250BZXC	130	1.8	128	25	0



BW165BUALL	G	120612	R2-Split 2	CY7C1512KV18-250BZXC	130	1.8	128	55	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	130	1.8	192	25	0
BW165BUALL	G	120612	R3-Split 2	CY7C1512KV18-250BZXC	130	1.8	128	25	0
BW165BUALL	G	120612	R3 -Split 1	CY7C1512KV18-250BZXC	130	1.8	128	54	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	130	1.8	192	25	0
Summary for Package Family: FBGA (1.0-1.27, Pb-free)			28	records					
Sum								1202	0
PDIP (Pb-Free)									
PZ243AAAGN	X	MR113012	R1	CY7C63743C-PXC	130	5.5	128	30	0
PZ183DPBGN	RA	MR111054	R1	CS6632AF	130	5.5	128	30	0
PZ183DPDGN	RA	MR113011	R1	CY7C63723C-PXC	130	5.5	128	30	0
PZ183EAAGN	X	MR114021	R1	CY7C63723C-PXC	130	5.5	128	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	130	5.5	128	30	0
PZ243AAAGN	X	MR112053	R1	CY7C63743C-PXC	130	5.5	128	30	0
Summary for Package Family: PDIP (Pb-Free)			6	records					
Sum								180	0
PLCC (Pb-Free)									
JZ32RBGAN	M	MR112030	R1	CY7B991V-2JXCT	130	3.6	128	30	0
JZ32RBGAN	M	MR113005	R1	CY7B991V-5JXC	130	3.6	128	30	0
Summary for Package Family: PLCC (Pb-Free)			2	records					
Sum								60	0
QFN (COL, 0.6mm, Saw Type, Pb-free)									
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16ABAALL	L	113302	R1	CY8C20236A-24LKXA	130	5.25	96	78	0
LG16ABAALL	L	113302	R2	CY8C20236A-24LKXA	130	5.25	96	78	0



LG16ABAALL	L	113302	R3	CY8C20236A-24LKXA	130	5.25	128	79	0
LG16ABAALL	L	NR111001	R3	CY8C20236A-24LKXIKL	130	5.25	128	29	0
LG16AQAAAL	G	114903	R1	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	130	5.25	128	79	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	130	5.25	192	39	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	130	5.25	128	79	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	130	5.25	192	40	0
LG16ABAALL	L	MR112052	R1	CP7194FT	130	5.25	128	29	0
LG16ABAALL	L	MR113029	R1	CS7412AT	130	5.25	128	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	130	5.25	128	29	0
LG16ABAALL	L	MR114030	R3	CG7471AMT	130	5.25	128	30	0
LG16ABAALL	L	MR114032	R3	CG7471AM	130	3.25	128	30	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R6	CY8C20236A-24LKXI	130	5.25	128	78	0
LG16AQAAAL	G	NR121001	R7	CY8C20236A-24LKXI	130	5.25	128	78	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R5	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R4	CY8C20236A-24LKXI	130	5.25	128	79	0

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

22 records

Sum

1358 0

QFN (Punch Type, Pb-Free)

LY24BGAGL	L	MR112059	R1	CY8C21323-24LFXIT	130	5.25	128	30	0
LY24BGAGL	L	MR113040	R1	CY8C21323-24LFXIT	130	5.25	128	30	0
LY56AGAGL	L	MR114036	R1	CY7C65630-56LFXA	130	3.63	96	30	0



LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	130	3.63	96	30	0
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**Summary for Package Family:
QFN (Punch Type, Pb-Free)**

4 records

Sum

120 0

QFN (Saw Type, Pb-Free)

LT68ADAAGL	RA	110905	R1C	CY8C5588LTI-114ES1	130	5.5	128	28	0
LT68ADAAGL	RA	110905	R1D	CY8C5588LTI-114ES1	130	5.5	128	22	0
LT68ADAAGL	RA	110905	R5	CY8C5568LTI-114	130	5.5	128	55	0
LT88AAAAAL	RA	113002	R1B	CY8CTMA884LTI-13ES	130	5.5	128	75	0
LT88AAAAAL	RA	113002	R1B	CY8CTMA884LTI-13ES	130	5.5	256	75	0
LT88AAAAAL	RA	113002	R2	CY8CTMA884LTI-13ES	130	5.5	128	76	0
LT88AAAAAL	RA	113002	R2	CY8CTMA884LTI-13ES	130	5.5	256	75	0
LT88AAAAAL	RA	113002	R3A	CY8CTMA884LTI-13ES	130	5.5	128	80	0
LQ48AAAAAL	R	MR113039	R1	CY8CTMA340-48LQI-01	130	5.5	128	30	0
LT88AAAAAL	RA	113002	R3A	CY8CTMA884LTI-13ES	130	5.5	256	79	0
LQ48AAAAAL	RA	113211	R1	CY8CTMA340-48LQI-09	130	4	128	80	0
LQ48AQAAAL	G	113905	R3	CY8CTMA443-48LQIES	130	5.5	128	80	0
LQ48AQAAAL	G	113905	R4	CY8CTMA443-48LQIES	130	5.5	128	78	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	130	5.25	128	30	0
LT68ADAAGL	RA	110905	R5	CY8C5568LTI-114	130	5.5	128	55	0
LQ48AAAAAGL	RA	112207	R1	CY8CTMA443-48LQIES	130	5.5	128	77	0
LQ24AQAAAL	G	113401	R1	CY8C20336A-24LQXI	130	5.25	128	79	0
LT88AAAAAL	RA	113803	R1	CY8CTMA884LTI-13ES	130	5.5	128	75	0
LT88AAAAAL	RA	113803	R2	CY8CTMA884LTI-13ES	130	5.5	128	76	0
LT88AAAAAL	RA	113804	R1	CY8CTMA884LTI-13ES	130	5.5	128	80	0
LT88AAAAAL	RA	113804	R2	CY8CTMA884LTI-13ES	130	5.5	128	79	0



LQ48AQAAAL	G	114101	R2	CY8CTMA443-48LQIES	130	5.5	128	78	0
LQ48AAAAAL	RA	114103	R2	CY8CTMA340-48LQI-09	130	5.5	128	80	0
LT68ADAAGL	RA	114110	R1A1	CY8C5568LTI-114	130	5.5	128	27	0
LT68ADAAGL	RA	114110	R2A	CY8C5568LTI-114	130	5.5	128	27	0
LQ24AQAAAL	G	114401	R2	CY8C20324-12LQXI	130	5.5	128	79	0
LQ32QAAAAAL	G	114401	R3	CY8CTMG240-LQI-01	130	5.5	128	80	0
LQ48AQAAAL	G	114403	R4	CY8CTMA301E-48LQXI	130	5.5	128	80	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	130	5.5	128	80	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	130	5.5	192	40	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	130	5.5	192	40	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	130	5.5	128	80	0
LQ56AQAAAL	G	114404	R1	CY8C24794-24LQXI	130	5.25	128	79	0
LQ56AQAAAL	G	114404	R2	CY8C24794-24LQXI	130	5.25	128	80	0
LQ56AQAAAL	G	114404	R3	CY8C24794-24LQXI	130	5.25	128	80	0
LT68ADAAGL	RA	114407	R5-Split2	CY8C5588LTI-114ES1	130	5.5	128	22	0
LT40ABAAAL	G	114904	R1	CYRF6986-40LTXC	130	3.03	128	78	0
LT40ABAAAL	G	114904	R2	CYRF6986-40LTXC	130	3.03	128	79	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	130	5.25	128	80	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	130	5.25	144	40	0
LT48DQAAAL	G	114905	R3	CY8C3866LTI-068	130	5.5	128	80	0
LT56YAAAAAL	G	114906	R1	CY7C65630-56LTXC	130	3.8	128	80	0
LT56YAAAAAL	G	114906	R1	CY7C65630-56LTXC	130	3.8	192	45	0
LT68YAAAAAL	G	114906	R2-Split1	CY8C3866LTI-030	130	5.5	128	40	0
LT68YAAAAAL	G	114906	R2-Split2	CY8C3866LTI-030	130	5.5	128	40	0
LT68YAAAAAL	G	114906	R2-Split1	CY8C3866LTI-030	130	5.5	192	40	0
LT32BBAAAL	G	114907	R1	CY8C21434-24LTXI	130	5.25	128	78	0



LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	130	5.5	128	30	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	130	5.25	128	30	0
LQ56ABAAAL	MB	NR113001	R1	CY8C24794-24LQXIT	130	5.25	128	30	0
LQ56ABAAAL	MB	NR113001	R2	CY8C24794-24LQXIT	130	5.25	128	30	0
LQ56ABAAAL	MB	NR113001	R3	CY8C24794-24LQXIT	130	5.25	128	30	0
LT32BAAAAGL	CA	MR113021	R1	CY8C21434-24LTXIT	130	5.25	128	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	130	5.25	128	30	0
LT48ABBAAL	MB	MR114014	R1	CP7408AT	130	5.25	128	30	0
LT48AQAAAL	G	MR114071	R1	CY8C20636A-24LTXI	130	5.25	128	30	0
LT56BDAAGL	AE	MR113050	R1	CG7158DMT	130	5.25	128	30	0
LT68ADAAGL	RA	MR112002	R1	CY8C3446LTI-085	130	5.25	128	30	0
LT88AAAAAL	RA	MR114046	R1	CY8CTMA884LTI-13T	130	5.5	128	30	0
LQ24ADAAGL	CA	MR112013	R1	CY8CTST200A-24LQXIT	130	5.25	128	30	0
LQ24ADAAGL	MB	MR112012	R1	CP6745DMT	130	5.25	128	30	0
LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	130	5.25	128	29	0
LQ36AAAAAN	MB	MR114015	R1	CY8CTMA340-LQI-01T	130	5.5	128	25	0
LQ48AAAAAL	RA	MR113059	R1	CG7415AF	130	5.5	128	29	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	130	5.25	128	30	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	130	5.25	128	24	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	130	5.25	128	25	0
LT32BAABGL	RA	120204	R1	CG7032AA	130	5.25	192	30	0
LT32BABCGL	RA	120204	R2	CS7224AA	130	5.25	128	79	0
LT32BABCGL	RA	120204	R2	CS7224AA	130	5.25	192	40	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	130	5.25	192	40	0
LT68ADAAGL	RA	120206	R2	CY8C3865LTI-014	130	5.5	192	25	0
LT68ADAAGL	RA	120206	R3	CY8C3865LTI-014	130	5.5	192	25	0



LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	130	5.25	128	24	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	130	5.25	128	28	0
LT48CQAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	130	3.63	128	79	0
LT48CQAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	130	3.63	128	79	0
LT48CQAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	130	3.63	128	78	0
Summary for Package Family: QFN (Saw Type, Pb-Free)			78	records					
Sum								4125	0
QSOP (Pb-Free)									
SQ2414ACGN	JT	NR113002	R1	CY7C63823-QXC	130	5.5	128	25	0
Summary for Package Family: QSOP (Pb-Free)			1	records					
Sum								25	0
SNC (Pb-Free)									
SY2831BBLN	R	MR113001	R1	CG6715AMT	130	5.5	128	30	0
SY2831BCLN	JT	MR114017	R1	CY62256NLL-70SNXC	130	5.5	128	30	0
Summary for Package Family: SNC (Pb-Free)			2	records					
Sum								60	0
SOIC (Pb Free)									
SZ24315EGN	RA	MR112032	R1	CY7C63743C-SXC	130	5.25	128	30	0
SZ324513N	R	MR112035	R1	CY62128BNLL-70SXET	130	5.5	96	28	0
SZ815PAEGN	RA	MR114001	R1	CY2305SXI-1H	130	3.63	128	30	0
SZ815CGAAS	M	MR112007	R1	CY2305CSXA-1HT	130	3.63	96	30	0
SZ324513BN	R	MR113002	R1	CY62128BNLL-55SXI	130	3.6	128	30	0
SZ183CPEAN	RA	MR113016	R1	CY7C63723C-SXC	130	5.5	128	30	0
SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	130	3.6	128	30	0
SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	130	3.63	96	30	0
SZ28327BGL	R	MR112066	R1	CY8C27443-24SXI	130	5.25	128	30	0



SZ1615KDGN	RA	MR113009	R1	CY2292FXC	130	3.8	128	30	0
SZ28327BGL	R	MR113017	R1	CY8C21345-24SXI	130	5.25	128	30	0
SZ1615FAL	T	MR114019	R1	CY7C63801-SXC	130	5.5	128	30	0
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	130	5.25	128	30	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	130	5.25	128	80	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	130	5.25	192	25	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	130	5.25	128	79	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	130	5.25	192	25	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	130	5.25	128	80	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	130	5.25	192	25	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	130	3.6	96	30	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	130	5.5	96	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	130	3.63	128	30	0
SZ324513AN	JT	MR122012	R1	CY62128BNLL-70SXET	130	5.5	96	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	130	3.63	128	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	110	3.6	128	29	0
Summary for Package Family: SOIC (Pb Free)			25	records				881	0
Sum								881	0
SOJ									
V243GAAAGN	X	MR112050	R1	CY7C197BN-15VCT	130	5.5	128	27	0
V243GAAAGN	X	MR113065	R1	CY7C197BN-15VC	130	5.5	128	30	0
Summary for Package Family: SOJ			2	records				57	0
Sum								57	0
SOJ (Pb-Free)									
VZ32314BLL	R	MR103011	R1	CY7C1018DV33-10VXIT	130	3.77	128	30	0
VZ444ACBLN	R	MR112008	R1	CY7C1021DV33-10VXI	130	3.6	128	29	0



VZ32314BLL	R	MR112033	R1	CY7C1009D-10VXIT	130	5.5	128	30	0
VZ2847AAAR	OP	MR112051	R1	CY7C107D-10VXI	130	5.5	128	30	0
VZ444ACBLN	R	MR113049	R1	CG7109AM	130	5.5	128	30	0
VZ2847AAAR	OP	MR114074	R1	CY7C107D-10VXI	130	5.5	128	30	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	130	5.5	128	25	0
VZ444ADDLN	JT	NR114001	R2	CY7C1041DV33-10VXI	130	3.6	128	25	0

Summary for Package Family: SOJ (Pb-Free)

8 records

Sum

229 0

SSOP (Pb-Free)

SP28214GL	T	MR113052	R1	CY8C21534-24PVXI	130	5.25	128	30	0
SP28213GL	T	111402	R1	CY8C29466-24PVXI	130	5.25	128	80	0
SP28213GL	T	111402	R2	CY8C29466-24PVXI	130	5.25	128	80	0
SP2822BGL	M	MR112009	R1	CY8C21534-24PVXAT	130	5.25	96	30	0
SP483JBALL	R	MR112029	R3	CY14B101LA-SP25XI	130	3.3	128	30	0
SP483ACGAN	R	MR113013	R4	CY8C20536A-24PVXIT	130	5.25	128	30	0
SP282ABBGN	RA	MR113014	R1	CY8C21534-24PVXI	130	5.25	128	30	0
SP2822BGL	M	MR113037	R1A	CY8C21534-24PVXAT8	130	5.25	96	30	0
SP2822BGL	M	MR114003	R1	CP7407ATT	130	5.25	96	30	0
SP282ABBGN	RA	MR114023	R1	CY8C24533-24PVXI	130	5.25	128	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	130	5.25	128	30	0
SP483EBCAL	JT	NR113007	R1	CY8C27643-24PVXI	130	5.25	128	25	0
SP563DBC GN	JT	NR113007	R3	CY7C68013A-56PVXC	130	3.63	128	25	0
SP563DBC GN	JT	NR113007	R2	CY7C68013A-56PVXC	130	3.63	128	25	0



SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	130	5.25	128	27	0
SP2822BGL	M	MR122006	R1	CY8C21534-12PVXET	130	5.25	96	30	0
SP2822ABBGN	RA	MR122004	R1	CY8C27443-24PVXIT	130	5.25	128	30	0
SP483EBCAL	JT	MR114073	R2	CY8C29666-24PVXI	130	5.25	128	30	0
SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	130	3.63	128	30	0
SP563DBC GN	JT	MR122025	R1	CY7C68013A-56PVXC	130	3.63	128	30	0
Summary for Package Family: SSOP (Pb-Free)			20	records				682	0
Sum								682	0
TQFP									
A64IBAABL N	JT	NR113005	R3	CY7C144AV-25ACKJ	130	5.5	128	25	0
Summary for Package Family: TQFP			1	record				25	0
Sum								25	0
TQFP (Pb-Free)									
AZ100SFKAL	RA	112302	R1A	CY8C5568AXI-060	130	5.5	128	40	0
AZ100SFHAL	JT	111817	R4-Split1	CY8C5568AXI-060	130	5.5	128	68	0
AZ100SFHAL	JT	111817	R4-Split2	CY8C5568AXI-060	130	5.5	128	31	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	130	3.63	128	30	0
AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	130	3.6	128	30	0
AZ100RUBLN	R	MR112043	R1	CY7C1350G-200AXC	130	3.63	128	30	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	130	3.63	128	30	0
AZ64IBABL N	JT	NR113005	R2	CY7C4265-10AXIKJ	130	5.5	128	25	0
AZ100RUCLN	JT	NR113006	R1	CY7C68013A-100AXCKJ	130	3.63	128	25	0
AZ100RUCLN	JT	NR113006	R2	CY7C68013A-100AXIKJ	130	3.63	128	25	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	130	3.3	128	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	130	3.63	128	30	0



Summary for Package Family: TQFP (Pb-Free)

12 records

					Sum			394	0
TSOP (Pb-free)									
ZT32RABALL	T	MR112026	R1	CY62128BNLL-55ZXIT	130	5.5	128	30	0
ZT32RABALL	T	MR113036	R1	CY62128EV30LL-45ZXI	130	3.6	128	30	0
ZT28R2BCLN	JT	NR113004	R3	CY62256VNLL-70ZXC	130	3.6	128	25	0
ZT28R4BAGL	JT	NR113004	R2	CY7C1399BN-12ZXC	130	3.63	128	25	0

Summary for Package Family: TSOP (Pb-free)

4 records

					Sum			110	0
TSOP I (Pb-Free)									
ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	130	3.6	128	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	130	3.6	128	30	0
ZB32RHCALN	JT	NR113004	R1	CY62138FV30LL-45ZAXI	130	3.6	128	25	0

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

3 records

					Sum			85	0
TSOP II (Pb-Free)									
ZW444YBBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	130	3.65	128	30	0
ZW444ALLR	G	MR113047	R1	CY7C1051DV33-10ZSXI	130	3.65	128	30	0
ZW44AAXAGL	RA	MR113031	R1	CY7C1020DV33-10ZSXI	130	5.5	128	30	0
ZW324CBLL	T	MR113004	R1	CY62148ELL-45ZSXIT	130	3.6	128	30	0
ZW444AHHLL	R	MR114007	R1	CY62126EV30LL-55ZSXE	130	3.63	96	30	0
ZW44ABXAGL	RA	MR114027	R1	CY62137EV30LL-45ZSXI	130	3.6	128	30	0



ZW444AAGLL	T	MR113043	R1	CY71041DV33-10ZSXI	130	3.6	128	30	0
ZW444ALLR	G	MR114043	R1	CY7C1051DV33-10ZSXI	130	3.6	128	30	0
ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	130	3.6	128	30	0
Summary for Package Family: TSOP II (Pb-Free)			9	records					
Sum								270	0
RTSOP (Pb-free)									
ZY28R2CLN		MR114009	R1	CY62256VNLL-70ZRXIT	130		128	30	0
Summary for Package Family: RTSOP (Pb-free)			1	records					
Sum								30	0
TSSOP (Pb-Free)									
ZZ1613HAN	T	MR113015	R1	CY2308ZXC-1H	130	3.8	128	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	130	3.8	128	30	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	130	3.8	128	30	0
Summary for Package Family: TSSOP (Pb-Free)			3	records					
Sum								90	0
VFBGA (0.75-0.8, 0.3mm)									
BV48ATALE	RA	MR113030	R1	CY62157DV30LL-55BVIT	110	3.6	264	24	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	110	3.6	264	30	0
BV48BNALE	G	MR112040	R1	CY62167DV30LL-70BVI	110	3.6	264	30	0
BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	110	3.6	264	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	110	3.6	264	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			5	records					
Sum								144	0



VFPGA (0.75-0.8, 0.3mm, Pb-Free)

BZ48CFAALL	G	MR113007	R1	CY62157EV30LL-45BVXIT	110	5.5	264	30	0
BZ48ZEAAL	RA	MR112005	R1	CY62157EV30LL-45BVXI	110	3.6	264	30	0
BZ48DAGLL	RA	MR113028	R1	CY62137FV30LL-45BVXIT	130	3.6	128	29	0
BZ48CNAALL	G	MR114075	R2	CY62167DV30LL-55BVXI	110	3.6	264	30	0
Summary for Package Family: VFPGA			4	records					
(0.75-0.8, 0.3mm, Pb-Free)									
Sum								119	0



Summary Detail -- HTS Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS	
UFBGA (Pb-free)												
BU60AAAAAL	G	121302	R4	CY8CTMA463-60BUIES2	150	0	1000	75	0			
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	150	0	500	76	0			
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	150	0	1000	76	0			
BU60AAAAAL	G	121302	R4	CY8CTMA463-60BUIES2	150	0	500	76	0			
Summary for Package Family: UFBGA (Pb-free)			4	records								
Sum								303	0			
FBGA (0.75-0.8, 0.3mm)												
BA48ZGALE	G	MR113048	R1	CY7C1021BNV33L-15BAI	150	0	500	30	0			
Summary for Package Family: FBGA (0.75-0.8, 0.3mm)			1	records								
Sum								30	0			
FBGA (0.75-0.8, 0.3mm, Pb-free)												
BK48DZAAAL	G	113205	R1	CY7C1081DV33-12BAXI	150	0	500	80	0			
BK48DZAAAL	G	113303	R1	CY7C1081DV33-12BAXI	150	0	500	80	0			
BK48DZAAAL	G	113303	R1	CY7C1081DV33-12BAXI	150	0	1000	80	0			
BK48DLBLL	G	MR113033	R1	CY62187EV30LL-55BAXI	150	0	1000	30	0			
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150	0	500	82	0			
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150	0	1000	82	0			
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150	0	1500	82	0			
BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	150	0	500	30	0			
BK48DJALL	G	MR121049	R1	CY62177DV30LL-55BAXI	150	0	500	28	0			



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

9 records

Sum 574 0

FBGA (1.0-1.27)

BB165AHLE	G	MR112063	R1	CY7C1420SV18-250BZC	150	0	1000	30	0
BB165AHLE	G	MR112063	R1	CY7C1420SV18-250BZC	150	0	500	30	0
BB165UALE	G	MR111072	R1	CG6607BT	150	0	1000	29	0
BB165GABLE	RA	MR111071	R1	CY7C1518KV18-333BZC	150	0	1000	29	0
BB165AHLE	G	MR113034	R1	CY7C1420SV18-250BZC	150	0	1000	29	0
BB165AHLE	G	MR113034	R1	CY7C1420SV18-250BZC	150	0	500	30	0
BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	150	0	500	30	0
BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	150	0	1000	30	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	150	0	500	30	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	150	0	1000	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	150	0	500	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	150	0	1000	30	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	150	0	500	30	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	150	0	500	30	0
BB165BUALE	G	MR122029	R1	CY7C1512KV18-250BZC	150	0	500	30	0

Summary for Package Family: FBGA (1.0-1.27)

15 records

Sum 447 0



FBGA (1.0-1.27, Pb-free)

BW165GAALL	RA	MR112045	R1	CY7C1512KV18-250BZXC	150	0	1000	30	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150	0	500	30	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150	0	1000	30	0
BW165RJALL	RA	MR113074	R1	CY7C1412KV18-250BZXI	150	0	500	30	0
BW165RJALL	RA	MR113074	R1	CY7C1412KV18-250BZXI	150	0	1000	30	0
BW100EAGL	G	MR113025	R1	CYP15G0101DXB-BBXC\	150	0	500	30	0
BW165RJALL	RA	MR114039	R1	CY7C1414KV18-250BZXI	150	0	500	30	0
BW165RJALL	RA	MR114039	R1	CY7C1414KV18-250BZXI	150	0	1000	30	0
BW100EAGL	G	MR112044	R1	CYP15G0101DXB-BBXI	150	0	1000	30	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150	0	1500	29	0
BW165RJALL	RA	MR121035	R1	CY7C1414KV18-250BZXC	150	0	500	30	0
BW165RJALL	RA	MR121035	R1	CY7C1414KV18-250BZXC	150	0	1000	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	150	0	500	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	150	0	1000	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	150	0	500	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	150	0	1000	30	0
BW165RJALL	RA	MR122009	R1	CY7C1412KV18-250BZXI	150	0	500	30	0
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	150	0	500	30	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	150	0	1000	99	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	150	0	1500	89	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	150	0	1000	118	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	150	0	1500	118	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	150	0	1000	99	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	150	0	1500	89	0



BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	150	0	2000	89	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150	0	1000	120	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150	0	1500	120	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150	0	2000	120	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150	0	1000	85	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150	0	1500	75	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150	0	1000	100	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150	0	1500	100	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150	0	1000	100	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150	0	1500	100	0
Summary for Package Family: FBGA (1.0-1.27, Pb-free)			34	records					
Sum								2160	0
PBGA (1.27)									
BG119SALE	G	MR114040	R1	CY7C1366C-166BGC			500	30	
BG119SALE	G	MR114040	R1	CY7C1366C-166BGC	150	0	1000	30	0
Summary for Package Family: PBGA (1.27)			1	records					
Sum								60	0



FLIPCHIP CSP (Pb-Free)

FNDXIT	AU	112201	R1	7C071011C	150	0	1000	77	0
FNDXIT	AU	112201	R1	7C071011C	150	0	500	79	0
FN81AGAN	AU	MR112068	R1	CYWB0124ABX-FDXI	150	0	1000	30	0
FN81AGAN	AU	MR112068	R1	CYWB0124ABX-FDXI	150	0	500	30	0
FN81AAKRC	GQ	MR112069	R1	CYWB0124ABX-FDXI	150	0	1000	30	0
FN81AAKRC	GQ	MR112069	R1	CYWB0124ABX-FDXI	150	0	500	30	0
FN49	AU	113211	R0	8C20324DC	150	0	500	80	0
FN49	AU	113211	R3	CY8CTMA340-FN1-09	150	0	500	79	0
FB131ATBCD	AU	103501	R1	CYWB0263BB-FBXIES	150	0	500	82	0
FB131ATBCD	AU	103501	R1	CYWB0263BB-FBXIES	150	0	1000	82	0
FN49	AU	114103	R1	CY8CTMA340-FN1-09	150	0	500	79	0
FN49ABAAAL	AU	MR112078	R1	CG7411AMT	150	0	500	30	0
FN49ABAAAL	AU	MR112078	R1	CG7411AMT	150	0	1000	27	0
FN81AGAN	AU	MR114061	R2	CYWB0124ABX-FDXIT	150	0	500	30	0
FN81AGAN	AU	MR114061	R2	CYWB0124ABX-FDXIT	150	0	1000	30	0
FN81AGAN	AU	MR113060	R1	CYWB0124ABX-FDXIT	150	0	500	30	0
FN81AGAN	AU	MR113060	R1	CYWB0124ABX-FDXIT	150	0	1000	30	0
FN49ACAAAL	GQ	MR113072	R1	CY8CTMA340-FNI-09T	150	0	500	30	0

Summary for Package Family: FLIPCHIP CSP (Pb-Free) **18**

records

Sum

885 0

PBGA (Cavity/Heat Sink, Pb-free)

BJ256L2GL	G	MR112057	R1	CYV15G0104TRB-BGX	150	0	1000	30	0
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BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	150	0	500	30	0
BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	150	0	1000	30	0

Summary for Package Family: PBGA (Cavity/Heat Sink, Pb-free) **3**

records

Sum

90 0

PDIP (Pb-Free)

PZ286EAAGN	X	MR112049	R1	CY62256NLL-70PXC	150	0	1000	30	0
PZ243AAAGN	X	MR113012	R1	CY7C63743C-PXC	150	0	500	30	0
PZ243AAAGN	X	MR113012	R1	CY7C63743C-PXC	150	0	1000	30	0
PZ183DPDGN	RA	MR112048	R1	CY7C63723C-PXC	150	0	1000	30	0
PZ243AAAGN	X	MR112053	R1	CY7C63743C-PXC	150	0	1000	30	0
PZ183DPDGN	RA	MR113011	R1	CY7C63723C-PXC	150	0	500	30	0
PZ183DPDGN	RA	MR113011	R1	CY7C63723C-PXC	150	0	1000	30	0
PZ183DPBGN	RA	MR113087	R1	CS6632AF	150	0	500	30	0
PZ183DPBGN	RA	MR113087	R1	CS6632AF	150	0	1000	30	0
PZ183EAAGN	X	MR114021	R1	CY7C63723C-PXC	150	0	500	30	0
PZ183EAAGN	X	MR114021	R1	CY7C63723C-PXC	150	0	1000	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	150	0	500	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	150	0	1000	30	0
PZ283ACAGL	X	MR121051	R1	CY7C199CN-15PXC	150	0	500	30	0
PZ283ACAGL	X	MR121051	R1	CY7C199CN-15PXC	150	0	1000	30	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	150	0	500	30	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	150	0	1000	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	150	0	500	30	0

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

records



Sum

540 0

PLCC (Pb-Free)

JZ32RBGAN	M	MR113005	R1	CY7B991V-5JXC	150	0	500	30	0
JZ32RBGAN	M	MR113005	R1	CY7B991V-5JXC	150	0	1000	30	0
JZ52SGGAAN	M	113405	R1	CY7C136E-55JXC	150	0	500	79	0
JZ52SGGAAN	M	113405	R1	CY7C136E-55JXC	150	0	1000	80	0
JZ52SGGAAN	M	113405	R1	CY7C136E-55JXC	150	0	1500	80	0
JZ52SFGAN	M	MR114045	R1	CY7C136-25JXC	150	0	500	30	0
JZ52SFGAN	M	MR114045	R1	CY7C136-25JXC	150	0	1000	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	150	0	500	30	0

Summary for Package Family: PLCC (Pb-Free)

8 records

Sum

389 0

PQFP (Pb-free)

NZ52DXGAN	G	MR112060	R1	CY7C136-55NXCT	150	0	1000	30	0
NZ52EAALL	M	113405	R3	CY7C136E-55JXC	150	0	500	80	0
NZ52EAALL	M	113405	R3	CY7C136E-55JXC	150	0	1000	80	0
NZ52DXGAN	G	MR114028	R1	CY7C136A-55NXI	150	0	500	30	0
NZ52DXGAN	G	MR113056	R1	CY7C136A-55NXI	150	0	500	30	0
NZ52DXGAN	G	MR113056	R1	CY7C136A-55NXI	150	0	1000	30	0
NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	150	0	500	30	0
NZ52DXGAN	G	MR114028	R1	CY7C136A-55NXI	150	0	1000	30	0



NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	150	0	1000	30	0
NZ52DXGAN	G	MR122023	R1	CY7C131-55NXC	150	0	500	30	0
Summary for Package Family: PQFP (Pb-free)			10	records					
Sum								400	0
QFN (COL, 0.6mm, Saw Type, Pb-free)									
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	150	0	500	80	0
LG16AAAAL	MB	MR112021	R1	CY8C20236A-24LKXIT	150	0	1000	30	0
LG16AQAAAL	G	114903	R1	CY8C20236A-24LKXI	150	0	1000	110	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	1000	90	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	1500	78	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	1000	100	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	1500	99	0
LG16ABAALL	L	MR112052	R1	CP7194FT	150	0	1000	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	150	0	500	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	150	0	1000	30	0
LG16ABAALL	L	MR113029	R1	CS7412AT	150	0	500	30	0
LG16ABAALL	L	MR113029	R1	CS7412AT	150	0	1000	30	0
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	150	0	1000	80	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	2000	78	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	2500	77	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	2000	99	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	2500	99	0
LG16ABAALL	L	MR114030	R1	CG7471AMT	150	0	500	30	0
LG16ABAALL	L	MR114030	R1	CG7471AMT	150	0	1000	30	0
LG16ABAALL	L	MR114032	R1	CY8C20236A-24LKXIT	150	0	500	30	0



LG16ABAALL	L	MR114032	R1	CY8C20236A-24LKXIT	150	0	1000	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	150	0	500	30	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	150	0	500	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	150	0	500	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	150	0	1000	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	150	0	500	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	150	0	1000	90	0

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

27 records

Sum

1770 0

QFN (Punch Type, Pb-Free)

LY24BGAGL	L	MR112059	R1	CY8C21323-24LFXIT	150	0	500	30	0
LY24BGAGL	L	MR112059	R1	CY8C21323-24LFXIT	150	0	1000	30	0
LY40CGAGR	L	MR113023	R1	CYRF69213-40LFXC	150	0	500	30	0
LY24BGAGL	L	MR113040	R1	CY8C21323-24LFXIT	150	0	500	30	0
LY56AGAGL	L	MR114036	R1	CY7C65630-56LFXA	150	0	1000	30	0
LY56DGAGL	L	MR114035	R1	CY8CTMG120-56LFXA	150	0	1000	30	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	150	0	1000	30	0

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

(Punch 7 records

Sum

210 0



QFN (Saw Type, Pb-Free)

LT88AAAAAL	RA	113002	R1B	CY8CTMA884LTI-13ES	150	0	500	77	0
LT88AAAAAL	RA	113002	R1B	CY8CTMA884LTI-13ES	150	0	1000	77	0
LT56BDAAGL	AE	MR112027	R1	CY7C64215-56LTXC	150	0	1000	30	0
LQ48AAAAAL	R	MR113039	R1	CY8CTMA340-48LQI-01	150	0	500	30	0
LQ48AAAAAL	R	MR113039	R1	CY8CTMA340-48LQI-01	150	0	1000	30	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	150	0	500	30	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	150	0	1000	30	0
LT88AAAAAL	RA	112207	R4	CY8CTMA884LTI-13ES	150	0	500	77	0
LQ48AAAAAL	RA	113211	R1	CY8CTMA340-48LQI-09	150	0	500	80	0
LT88AAAAAL	RA	113804	R1	CY8CTMA884LTI-13ES	150	0	500	80	0
LT88AAAAAL	RA	113804	R1	CY8CTMA884LTI-13ES	150	0	1000	80	0
LT68ADAAGL	RA	114110	R1A1	CY8C5568LTI-114	150	0	500	80	0
LT68ADAAGL	RA	114110	R1A1	CY8C5568LTI-114	150	0	1000	80	0
LQ48AQAAAL	G	114401	R6	CY8CTMA301E-48LQXI	150	0	500	80	0
LQ48AQAAAL	G	114401	R6	CY8CTMA301E-48LQXI	150	0	1000	80	0
LQ32QAAAAAL	G	114401	R4	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ32QAAAAAL	G	114401	R5	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	500	220	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	1000	220	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	1000	210	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	1500	220	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	1500	210	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	1500	200	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	500	220	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	500	220	0



LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	1000	210	0
LQ32QAAAAAL	G	114404	R4	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ32QAAAAAL	G	114404	R5	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ48AQAAAL	G	114404	R6	CY8CTMA301E-48LQXI	150	0	500	80	0
LQ48AQAAAL	G	114404	R6	CY8CTMA301E-48LQXI	150	0	1000	80	0
LT68ADAAGL	RA	114407	R4	CY8C5568LTI-114	150	0	500	80	0
LT68ADAAGL	RA	114407	R4	CY8C5568LTI-114	150	0	1000	80	0
LQ48AQAAAL	G	114903	R8	CY8CTMA301E-48LQXI	150	0	500	80	0
LQ48AQAAAL	G	114903	R8	CY8CTMA301E-48LQXI	150	0	1000	80	0
LQ32QAAAAAL	G	114903	R6	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ32QAAAAAL	G	114903	R7	CY8C20466A-24LQXIES	150	0	1000	80	0
LT40ABAAAL	G	114904	R2	CYRF6986-40LTXC	150	0	1000	80	0
LT40ABAAAL	G	114904	R3	CYRF6986-40LTXC	150	0	500	80	0
LT40ABAAAL	G	114904	R3	CYRF6986-40LTXC	150	0	1000	80	0
LQ48AQAAAL	G	114904	R6	CY8CTMA301E-48LQXI	150	0	500	80	0
LQ48AQAAAL	G	114904	R6	CY8CTMA301E-48LQXI	150	0	1000	80	0
LQ32QAAAAAL	G	114904	R4	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ32QAAAAAL	G	114904	R5	CY8C20466A-24LQXIES	150	0	1000	80	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150	0	500	120	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150	0	1000	110	0
LQ32QAAAAAL	G	114905	R4	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ32QAAAAAL	G	114905	R5	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ48AQAAAL	G	114905	R6	CY8CTMA301E-48LQXI	150	0	500	80	0
LQ48AQAAAL	G	114905	R6	CY8CTMA301E-48LQXI	150	0	1000	80	0
LT56YAAAAAL	G	114906	R1	CY7C65630-56LTXC	150	0	500	80	0
LT68YAAAAAL	G	114906	R2	CY8C3866LTI-030	150	0	500	80	0



LQ32QAAAAL	G	114906	R4	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ32QAAAAL	G	114906	R5	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ48AQAAAAL	G	114906	R6	CY8CTMA301E-48LQXI	150	0	500	80	0
LQ48AQAAAAL	G	114906	R6	CY8CTMA301E-48LQXI	150	0	1000	80	0
LQ48AQAAAAL	G	114907	R6	CY8CTMA301E-48LQXI	150	0	500	80	0
LQ48AQAAAAL	G	114907	R6	CY8CTMA301E-48LQXI	150	0	1000	80	0
LQ32QAAAAL	G	114907	R4	CY8C20466A-24LQXIES	150	0	1000	80	0
LQ32QAAAAL	G	114907	R5	CY8C20466A-24LQXIES	150	0	1000	80	0
LT88AAAAAL	RA	115101	R3	CY8CTMA884LTI-13ES	150	0	500	80	0
LT68ADAAGL	RA	115102	R1	CY8C5568LTI-114	150	0	500	80	0
LT68ADAAGL	RA	115102	R1	CY8C5568LTI-114	150	0	1000	80	0
LQ44AAAAALN	G	120407	R4	CY8CTMA443-44LXIES	150	0	1000	79	0
LQ44AAAAALN	G	120407	R4	CY8CTMA443-44LXIES	150	0	500	80	0
LQ48AAAAAL	RA	MR112019	R1	CG7394AMT	150	0	1000	30	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150	0	500	30	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150	0	1000	30	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	150	0	500	30	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	150	0	1000	30	0
LQ56ABAAAAL	MB	NR113001	R1	CY8C24794-24LQXIT	150	0	500	30	0
LQ56ABAAAAL	MB	NR113001	R1	CY8C24794-24LQXIT	150	0	1000	30	0
LQ56ABAAAAL	MB	NR113001	R2	CY8C24794-24LQXIT	150	0	500	30	0
LQ56ABAAAAL	MB	NR113001	R2	CY8C24794-24LQXIT	150	0	1000	30	0
LQ56ABAAAAL	MB	NR113001	R3	CY8C24794-24LQXIT	150	0	500	30	0
LQ56ABAAAAL	MB	NR113001	R3	CY8C24794-24LQXIT	150	0	1000	30	0
LT68ADAAGL	RA	MR112002	R1	CY8C3446LTI-085	150	0	1000	16	0
LQ32ACBAGL	MB	MR112012	R1	CP6745DMT	150	0	1000	30	0



LT32BAAAGL	CA	MR113021	R1	CY8C21434-24LTXT	150	0	500	29	0
LT56BDAAGL	AE	MR113050	R1	CG7158DMT	150	0	500	30	0
LQ48AAAAAL	RA	MR113059	R1	CG7415AF	150	0	500	30	0
LQ48AAAAAL	RA	MR113059	R1	CG7415AF	150	0	1000	30	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	150	0	500	30	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	150	0	1000	30	0
LQ48AQAAAL	G	MR114025	R1	CY8CTMA340-48LQI-01T	150	0	500	30	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	150	0	500	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	150	0	500	25	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	150	0	1000	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	150	0	1000	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	150	0	500	25	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	2000	200	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	2500	200	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	3000	200	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	2000	210	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	2500	205	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	3000	200	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	2000	220	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	2500	220	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	3000	220	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150	0	1500	100	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150	0	2000	95	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150	0	1000	80	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150	0	1500	80	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150	0	1000	80	0



LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150	0	1500	80	0
LT32BAABGL	RA	120204	R1	CG7032AA	150	0	1500	97	0
LT32BAABGL	RA	120204	R1	CG7032AA	150	0	2000	97	0
LT32BABCGL	RA	120204	R2	CS7224AA	150	0	1500	97	0
LT32BABCGL	RA	120204	R2	CS7224AA	150	0	2000	97	0
LT32BABCGL	RA	120204	R3	CS7224AA	150	0	1500	97	0
LT32BABCGL	RA	120204	R3	CS7224AA	150	0	2000	97	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150	0	1500	94	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150	0	2000	94	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150	0	2500	94	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150	0	1500	104	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150	0	2000	104	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150	0	2500	104	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150	0	1500	104	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150	0	2000	103	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150	0	2500	103	0
LT32BAAAAGL	CA	MR113021	R1	CY8C21434-24LTXIT	150	0	1000	28	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	15	0	500	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	15	0	1000	30	0
LT48ABBAAL	MB	MR114014	R1	CP7408AT	150	0	1000	30	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	150	0	1000	25	0
LT56BDAAGL	AE	MR113050	R1	CG7158DMT	150	0	1000	30	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	150	0	500	30	0
LT48AQAAAL	G	MR114071	R1	CY8C20636A-24LTXI	150	0	500	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	150	0	500	30	0
LT56BDAAGL	AE	MR121038	R1	CG7243AMT	150	0	500	30	0



LT32BAABGL	RA	MR122002	R1	CY8C21434-24LTXIT	150	0	500	30	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	150	0	500	30	0
LT56YAAAAL	G	MR122027	R1	CY7C65640A-LTXC	150	0	500	30	0
LT48CQAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	150	0	500	90	0
LT48CQAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	150	0	500	90	0
LT48CQAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	150	0	500	90	0
Summary for Package Family: QFN Pb-Free)		(Saw Type,	135	records					
Sum								###	0
QSOP (Pb-Free)									
SQ2414ABGN	R	MR111076	R1	CY7C63743C-QXC	150	0	1000	30	0
SQ2414ACGN	JT	NR113002	R1	CY7C63823-QXC	150	0	500	25	0
SQ2414ACGN	JT	NR113002	R1	CY7C63823-QXC	150	0	1000	25	0
Summary for Package Family: QSOP (Pb-Free)			3	records					
Sum								80	0
SNC (Pb-Free)									
SY2831BBLN	R	MR112034	R1	CY62256NLL-55SNXI	150	0	1000	30	0
SY2831BBLN	R	MR113001	R1	CG6715AMT	150	0	1000	30	0
SY2831BBLN	R	MR113001	R1	CG6715AMT	150	0	500	30	0
SY2831BCLN	JT	MR114017	R1	CY62256NLL-70SNXC	150	0	500	30	0
SY2831BCLN	JT	MR114017	R1	CY62256NLL-70SNXC	150	0	1000	30	0
Summary for Package Family: SNC (Pb-Free)			5	records					
Sum								150	0
SOIC (Pb Free)									
SZ28327BGL	R	MR104070	R1	CY8C21345-24SXI	150	0	1000	30	0
SZ323AEGAS	M	MR112031	R1	CY14B256LA-SZ45XIT	150	0	1000	30	0



SZ24315EGN	RA	MR112032	R1	CY7C63743C-SXC	150	0	1000	28	0
SZ815PAEGN	RA	MR114001	R1	CY2305SXI-1H	150	0	500	30	0
SZ815PAEGN	RA	MR114001	R1	CY2305SXI-1H	150	0	1000	30	0
SZ323ABAGS	M	MR101047	R1	CY14B101L-SZ45XC	150	0	500	28	0
SZ323ABAGS	M	MR101047	R1	CY14B101L-SZ45XC	150	0	1000	28	0
SZ0815TAGN	T	111403	R1	CY25402SXC-007	150	0	500	80	0
SZ0815TAGN	T	111403	R1	CY25402SXC-007	150	0	1000	80	0
SZ815CGAAS	M	MR112007	R1	CY2305CSXA-1HT	150	0	1000	30	0
SZ324513BN	R	MR113002	R1	CY62128BNLL-55SXI	150	0	500	30	0
SZ324513BN	R	MR113002	R1	CY62128BNLL-55SXI	150	0	1000	30	0
SZ183CPEAN	RA	MR113016	R1	CY7C63723C-SXC	150	0	500	30	0
SZ183CPEAN	RA	MR113016	R1	CY7C63723C-SXC	150	0	1000	30	0
SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	150	0	500	30	0
SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	150	0	1000	30	0
SZ1615FAL	T	MR112065	R1	CY7C63803-SXC	150	0	500	30	0
SZ1615FAL	T	MR112065	R1	CY7C63803-SXC	150	0	1000	30	0
SZ28327BGL	R	MR112066	R1	CY8C27443-24SXI	150	0	500	30	0
SZ28327BGL	R	MR112066	R1	CY8C27443-24SXI	150	0	1000	30	0
SZ1615KDG	RA	MR113009	R1	CY2292FXC	150	0	500	30	0
SZ1615KDG	RA	MR113009	R1	CY2292FXC	150	0	1000	30	0
SZ28327BGL	R	MR113017	R1	CY8C21345-24SXI	150	0	500	30	0
SZ323AEGAS	M	MR113035	R1	CY14B101LA-SZ25XIT	150	0	500	30	0
SZ1615FAL	T	MR113045	R1	CY23EP09SXC-1HT	150	0	500	29	0
SZ1615FAL	T	MR113045	R1	CY23EP09SXC-1HT	150	0	1000	28	0
SZ1615EGN	M	MR113071	R1	CY2309SXI-1H	150	0	500	30	0
SZ1615EGN	M	MR113071	R1	CY2309SXI-1H	150	0	1000	30	0



SZ24315EGN	RA	MR114020	R1	CY7C63743C-SXCT	150	0	500	28	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150	0	500	30	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	150	0	500	77	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	150	0	1000	77	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	150	0	500	96	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	150	0	1000	86	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	150	0	500	96	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	150	0	1000	86	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	150	0	500	95	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	150	0	1000	85	0
SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	150	0	1000	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	150	0	500	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	150	0	1000	30	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	150	0	1000	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150	0	1000	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150	0	1500	30	0
SZ1615DGN	M	MR121048	R2	CY8C21234-24SXI	150	0	500	30	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	150	0	500	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	150	0	1000	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	150	0	500	30	0

Summary for Package Family: SOIC (Pb Free)

48 records

Sum

1987 0

SOJ

V243GAAAGN	X	MR112050	R1	CY7C197BN-15VCT	150	0	1000	30	0
V243GAAAGN	X	MR113065	R1	CY7C197BN-15VC	150	0	500	30	0

Summary for Package Family: SOJ

2 records



Sum

60 0

SOJ (Pb-Free)

VZ32314BLL	R	MR112033	R1	CY7C1009D-10VXIT	150	0	500	29	0
VZ32314BLL	R	MR112033	R1	CY7C1009D-10VXIT	150	0	1000	29	0
VZ2847AAAR	OP	MR112051	R1	CY7C107D-10VXI	150	0	1000	30	0
VZ444ACBLN	R	MR113049	R1	CG7109AM	150	0	500	30	0
VZ444ACBLN	R	MR113049	R1	CG7109AM	150	0	1000	30	0
VZ28311KLL	R	MR113064	R1	CY7C1399BN-15VXAT	150	0	1000	30	0
VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	150	0	500	30	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	150	0	500	25	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	150	0	1000	25	0
VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	150	0	500	25	0
VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	150	0	1000	25	0
VZ3649BBLN	JT	NR114001	R1	CY7C1049D-10VXIKJ	150	0	500	25	0
VZ3649BBLN	JT	NR114001	R1	CY7C1049D-10VXIKJ	150	0	1000	25	0
VZ444ADDLN	JT	NR114001	R2	CY7C1041DV33-10VXIKJ	150	0	500	25	0
VZ444ADDLN	JT	NR114001	R2	CY7C1041DV33-10VXIKJ	150	0	1000	25	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	150	0	500	30	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	150	0	1000	30	0
VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	150	0	1000	30	0

Summary for Package Family: SOJ (Pb-Free)

18 records

Sum

498 0

SSOP (Pb-Free)

SP483FBKGN	RA	MR112011	R1	CY8C20536A-24PVXIT	150	0	1000	30	0
SP28214GL	T	MR113052	R1	CY8C21534-24PVXI	150	0	500	30	0
SP28214GL	T	MR113052	R1	CY8C21534-24PVXI	150	0	1000	30	0



SP282ABBGN	RA	MR111008	R1	CY8C21534-24PVXIT	150	0	1000	17	0
SP28213GL	T	111402	R1	CY8C29466-24PVXI	150	0	500	80	0
SP28213GL	T	111402	R1	CY8C29466-24PVXI	150	0	1000	80	0
SP2822BGL	M	MR112009	R1	CY8C21534-24PVXAT	150	0	1000	30	0
SP282ABBGN	RA	MR112024	R1	CY8C24533-24PVXI	150	0	500	30	0
SP282ABBGN	RA	MR112024	R1	CY8C24533-24PVXI	150	0	1000	30	0
SP483JBALL	R	MR112029	R1	CY14B101LA-SP25XI	150	0	1000	28	0
SP483ACGAN	R	MR113013	R1	CY8C20536A-24PVXIT	150	0	500	30	0
SP483ACGAN	R	MR113013	R1	CY8C20536A-24PVXIT	150	0	1000	30	0
SP282ABBGN	RA	MR113014	R1	CY8C21534-24PVXI	150	0	500	29	0
SP282ABBGN	RA	MR113014	R1	CY8C21534-24PVXI	150	0	1000	21	0
SP2822BGL	M	MR114003	R1	CP7407ATT	150	0	1000	30	0
SP282ABBGN	RA	MR114023	R1	CY8C24533-24PVXI	150	0	500	30	0
SP282ABBGN	RA	MR114023	R1	CY8C24533-24PVXI	150	0	1000	30	0
SP483EBCAL	JT	NR113007	R1	CY8C27643-24PVXI	150	0	500	25	0
SP563DBC GN	JT	NR113007	R2	CY7C68013A-56PVXC	150	0	500	25	0
SP563DBC GN	JT	NR113007	R3	CY7C68013A-56PVXC	150	0	500	25	0
SP563DBC GN	JT	NR113007	R2	CY7C68013A-56PVXC	150	0	1000	25	0
SP563DBC GN	JT	NR113007	R3	CY7C68013A-56PVXC	150	0	1000	24	0
SP483EBCAL	JT	NR113007	R1	CY8C27643-24PVXI	150	0	1000	25	0
SP483MBBGN	RA	MR114067	R1	CY8C3246PVI-147	150	0	500	30	0
SP483EBCAL	JT	MR114073	R1	CY8C29666-24PVXIT	150	0	500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150	0	500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150	0	1000	30	0
SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	150	0	500	30	0
SP282ABBGN	RA	MR121043	R1	CY8C27443-24PVXIT	150	0	500	30	0



SP282ABBGN	RA	MR121043	R1	CY8C27443-24PVXIT	150	0	1000	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150	0	500	28	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150	0	1000	22	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150	0	1000	6	0
SP282ABBGN	RA	MR122004	R1	CY8C27443-24PVXIT	150	0	500	30	0

Summary for Package Family: SSOP (Pb-Free)

34 records

Sum 1030 0

TQFP

A64IBAABL	JT	NR113005	R3	CY7C144AV-25ACKJ	150	0	500	25	0
A64IBAABL	JT	NR113005	R3	CY7C144AV-25ACKJ	150	0	1000	25	0

Summary for Package Family: TQFP

2 records

Sum 50 0

TQFP (Pb-Free)

AZ100SFHAL	JT	111817	R1	CY8C5588AXI-060ES1	150	0	1000	77	0
AZ32LXGAN	Q	MR111025	R1	CY29946AXI	150	0	1000	30	0
AZ32BXGAN	Q	MR112077	R1	CY7C4201V-15AXC	150	0	500	30	0
AZ32BXGAN	Q	MR112077	R1	CY7C4201V-15AXC	150	0	1000	30	0
AZ44DGAGL	Q	MR112058	R1	CY7B995AXIT	150	0	500	30	0
AZ44DGAGL	Q	MR112058	R1	CY7B995AXIT	150	0	1000	30	0
AZ32GXGAN	G	MR113046	R1	CY29940AXIT	150	0	500	30	0
AZ100SFKAL	RA	112302	R1	CY8C5568AXI-060	150	0	500	77	0
AZ100SFKAL	RA	112302	R1	CY8C5568AXI-060	150	0	1000	77	0
AZ100SFDAL	R	MR112003	R1	CY8C3245AXI-158	150	0	1000	23	0
AZ100RUBLN	R	MR112043	R1	CY7C1350G-200AXC	150	0	1000	30	0
AZ32GXGAN	G	MR112054	R1	CY29940AXCT	150	0	500	30	0
AZ32GXGAN	G	MR112054	R1	CY29940AXCT	150	0	1000	30	0



AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150	0	500	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150	0	1000	30	0
AZ32GXGAN	G	MR113046	R1	CY29940AXIT	150	0	1000	30	0
AZ52AAGAL	Q	MR113051	R1	CY29972AXI	150	0	500	30	0
AZ32GXGAN	G	MR114034	R1	CY29942AXCT	150	0	500	30	0
AZ100RBLN	JT	MR114041	R1	CY7C1370D-167AXI	150	0	500	30	0
AZ100RBLN	JT	MR114041	R1	CY7C1370D-167AXI	150	0	1000	30	0
AZ100RUBLN	RA	MR114059	R1	CY7C68014A-100AXC	150	0	500	30	0
AZ100RUBLN	RA	MR114059	R1	CY7C68014A-100AXC	150	0	1000	30	0
AZ144AAAGR	Q	MR114081	R1	CY7C057V-15AXI	150	0	500	30	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	150	0	500	30	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	150	0	500	30	0
AZ100RUBLN	R	MR121042	R1	CY7C1350G-200AXCT	150	0	500	30	0
AZ44SFHAN	JT	NR113005	R1	CY37032VP44-100AXCKJ	150	0	500	25	0
AZ44SFHAN	JT	NR113005	R1	CY37032VP44-100AXCKJ	150	0	1000	25	0
AZ64IBABL	JT	NR113005	R2	CY7C4265-10AXIKJ	150	0	500	25	0
AZ64IBABL	JT	NR113005	R2	CY7C4265-10AXIKJ	150	0	1000	25	0
AZ100RUCLN	JT	NR113006	R1	CY7C68013A-100AXCKJ	150	0	500	25	0
AZ100RUCLN	JT	NR113006	R1	CY7C68013A-100AXCKJ	150	0	1000	25	0
AZ100RUCLN	JT	NR113006	R2	CY7C68013A-100AXIKJ	150	0	500	25	0
AZ100RUCLN	JT	NR113006	R2	CY7C68013A-100AXIKJ	150	0	1000	25	0
AZ100SFEAL	JT	NR113006	R3	CY7C026AV-25AXIKJ	150	0	500	25	0
AZ100SFEAL	JT	NR113006	R3	CY7C026AV-25AXIKJ	150	0	1000	25	0
AZ144AAAGR	Q	MR114081	R1	CY7C057V-15AXI	150	0	1000	30	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	150	0	1000	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	150	0	1000	30	0



AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	150	0	1000	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	150	0	1000	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	150	0	500	30	0
AZ32BXGAN	Q	MR122024	R1	CY7C4201V-15AXC	150	0	500	30	0

Summary for Package Family: TQFP (Pb-Free)

43 records

Sum

1374 0

TSOP (Pb-free)

ZT28R2BCLN	JT	MR114004	R1	CY62256VNLL-70ZXI	150	0	500	30	0
ZT28R2BCLN	JT	NR113004	R3	CY62256VNLL-70ZXC	150	0	500	25	0
ZT28R2BCLN	JT	NR113004	R3	CY62256VNLL-70ZXC	150	0	1000	25	0
ZT28R4BAGL	JT	NR113004	R2	CY7C1399BN-12ZXC	150	0	500	25	0
ZT28R4BAGL	JT	NR113004	R2	CY7C1399BN-12ZXC	150	0	1000	25	0
ZT32RABALL	T	MR113036	R1	CY62128EV30LL-45ZXI	150	0	500	30	0
ZT32RABALL	T	MR113036	R1	CY62128EV30LL-45ZXI	150	0	1000	30	0
ZT32RABALL	T	MR112026	R1	CY62128BNLL-55ZXIT	150	0	1000	30	0

Summary for Package Family: TSOP (Pb-free)

8 records

Sum

220 0

TSOP I (Pb-Free)

ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	150	0	500	30	0
ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	150	0	1000	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	150	0	500	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	150	0	1000	30	0
ZB32RKALL	T	MR113003	R1	CY62128EV30LL-45ZAXI	150	0	500	30	0
ZB32RKALL	T	MR113003	R1	CY62128EV30LL-45ZAXI	150	0	1000	30	0
ZB32RHCALN	JT	NR113004	R1	CY62138FV30LL-45ZAXI	150	0	500	25	0
ZB32RHCALN	JT	NR113004	R1	CY62138FV30LL-45ZAXI	150	0	1000	25	0



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

8

records

Sum

230

0

TSOP II (Pb-Free)

ZW54BGALL	G	MR112042	R1	CY7C1061DV33-10ZSXI	150	0	1000	30	0
ZW44AAAAGL	RA	MR112046	R1	CY62147EV30LL-45ZSXIT	150	0	1000	30	0
ZW54BGALL	G	MR113032	R1	CY7C1061DV33-10ZSXIT	150	0	500	30	0
ZW54BGALL	G	MR113032	R1	CY7C1061DV33-10ZSXIT	150	0	1000	30	0
ZW444ALLR	G	MR113047	R1	CY7C1051DV33-10ZSXI	150	0	500	30	0
ZW444ALLR	G	MR113047	R1	CY7C1051DV33-10ZSXI	150	0	1000	30	0
ZW444YBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150	0	500	30	0
ZW444YBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150	0	1000	30	0
ZW324GALL	T	MR112015	R1	CY7C1019DV33-10ZSXIT	150	0	500	30	0
ZW324GALL	T	MR112015	R1	CY7C1019DV33-10ZSXIT	150	0	1000	30	0
ZW444WBCLN	R	MR112020	R1	CY7C1041DV33-10ZSXI	150	0	1000	30	0
ZW324CBLL	T	MR113004	R1	CY62148ELL-45ZSXIT	150	0	500	30	0
ZW44AAXAGL	RA	MR113031	R1	CY7C1020DV33-10ZSXI	150	0	500	29	0
ZW44AAXAGL	RA	MR113031	R1	CY7C1020DV33-10ZSXI	150	0	1000	29	0
ZW444AAGLL	T	MR113043	R1	CY71041DV33-10ZSXI	150	0	500	30	0
ZW444AAGLL	T	MR113043	R1	CY71041DV33-10ZSXI	150	0	1000	30	0
ZW444ABXAGL	RA	MR114027	R1	CY62137EV30LL-45ZSXI	150	0	500	30	0
ZW444ALLR	G	MR114043	R1	CY7C1051DV33-10ZSXI	150	0	500	30	0
ZW444AKCLN	R	MR114064	R1	CY7C1011CV33-12ZSXE	150	0	1000	30	0

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

19

records

Sum

568

0

RTSOP (Pb-free)

ZY28R2CLN	JT	MR114009	R1	CY62256VNLL-70ZRXIT	150	0	500	30	0
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ZY28R2CLN	JT	MR114009	R1	CY62256VNLL-70ZRKIT	150	0	1000	30	0
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Summary for Package Family: RTSOP (Pb-free)

2 records

Sum

60 0

TSSOP (Pb-Free)

ZZ2014BGN	T	MR112047	R1	CY25404ZXI-003T	150	0	1000	29	0
ZZ1620GDAN	RA	MR113010	R1	CY24293ZXI	150	0	500	30	0
ZZ1620GDAN	RA	MR113010	R1	CY24293ZXI	150	0	1000	30	0
ZZ2014BGN	T	MR113053	R1	CY25404ZXI-003T	150	0	500	30	0
ZZ2014BGN	T	MR113053	R1	CY25404ZXI-003T	150	0	1000	30	0
ZZ1614HAN	T	111405	R1	CY23FS04ZXC	150	0	500	80	0
ZZ1614HAN	T	111405	R1	CY23FS04ZXC	150	0	1000	80	0
ZZ2014BGN	T	111408	R1	CYISM530AZXC	150	0	1000	76	0
ZZ1620GBAN	RA	MR112028	R1	CY22393FXCT	150	0	1000	30	0
ZZ1613HAN	T	MR113015	R1	CY2308ZXC-1H	150	0	500	30	0
ZZ1613HAN	T	MR113015	R1	CY2308ZXC-1H	150	0	1000	30	0
ZZ1614HAN	T	MR114022	R1	CY22388ZXC-25T	150	0	500	30	0
ZZ1614HAN	T	MR114022	R1	CY22388ZXC-25T	150	0	1000	30	0
ZZ1620GBAN	RA	MR114026	R1	CY22388ZXC-26T	150	0	500	30	0
ZZ1620GBAN	RA	MR114026	R1	CY22388ZXC-26T	150	0	1000	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	150	0	500	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	150	0	1000	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	150	0	500	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	150	0	1000	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	150	0	500	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	150	0	500	30	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	150	0	500	30	0



Summary for Package Family: TSSOP (Pb-Free)

22 records

Sum

805 0

VFBGA (0.75-0.8, 0.3mm)

BV48ATALE	RA	MR113030	R1	CY62157DV30LL-55BVIT	150	0	500	30	0
BV48ATALE	RA	MR113030	R1	CY62157DV30LL-55BVIT	150	0	1000	30	0
BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	150	0	500	30	0
BV48BNALE	G	MR112040	R1	CY62167DV30LL-70BVI	150	0	1000	30	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	150	0	500	30	0
BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	150	0	1000	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	150	0	500	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	150	0	500	30	0

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

(0.75-0.8, 8 records

Sum

240 0

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

BZ100HAALL	RA	MR112001	R1	CYWB0224ABS-BVXI	150	0	1000	30	0
BZ48ABCALL	AT	MR112064	R1	CY62126EV30LL-45BVXIT	150	0	1000	30	0
BZ48CFAALL	G	MR113007	R1	CY62157EV30LL-45BVXIT	150	0	1000	27	0
BZ48CFAALL	G	MR113007	R1	CY62157EV30LL-45BVXIT	150	0	500	30	0
BZ100HAALL	RA	MR113008	R1	CYWB0226ABS-BVXI	150	0	1000	30	0
BZ100HAALL	RA	MR113008	R1	CYWB0226ABS-BVXI	150	0	500	30	0
BZ48DAGLL	RA	MR113028	R1	CY62137FV30LL-45BVXIT	150	0	500	30	0
BZ48DAGLL	RA	MR113028	R1	CY62137FV30LL-45BVXIT	150	0	1000	30	0
BZ48CNAALL	G	MR114075	R2	CY62167DV30LL-55BVXI	150	0	500	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	150	0	500	30	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150	0	1000	104	0



BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150	0	1500	94	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150	0	1000	99	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150	0	1500	89	0
BZ48CEAALL	G	MR113057	R1	CY62147EV30LL-45BVXA	150	0	1000	30	0
BZ48CNAALL	G	MR114018	R1	CY62167DV30LL-55BVXI	150	0	500	30	0
BZ48CNAALL	G	MR114075	R2	CY62167DV30LL-55BVXI	150	0	1000	30	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	150	0	500	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	150	0	1000	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	150	0	500	30	0

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

(0.75-0.8,

20

records

Sum

863

0



Summary Detail -- PCT Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
UFBGA (Pb-free)											
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	121	0	168	77	0		
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	121	0	288	77	0		
Summary for Package Family: UFBGA (Pb-free)			2	records							
Sum								154	0		
FBGA (0.75-0.8, 0.3mm)											
BA48ZGALE	G	MR113048	R1	CY7C1021BNV33L-15BAI			168	30	0		
BA48ZGALE	G	MR113048	R1	CY7C1021BNV33L-15BAI			288	30	0		
BA48ZGALE	G	MR121027	R1	CY7C1021BNV33L-15BAI			168	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm)			3	records							
Sum								90	0		
FBGA (0.75-0.8, 0.3mm, Pb-free)											
BK121BGAGL	RA	102402	R2	CYUSB3014-BZXIES	121	0	288	73	0		
BK121BGAGL	RA	102402	R4	CYUSB3014-BZXIES	121	0	168	82	0		
BK121BGAGL	RA	102402	R4	CYUSB3014-BZXIES	121	0	288	82	0		
BK48DZAAAL	G	113205	R1	CY7C1081DV33-12BAXI	121	0	168	80	0		
BK48DZAAAL	G	113303	R1	CY7C1081DV33-12BAXI	121	0	168	80	0		
BK48DZAAAL	G	113303	R1	CY7C1081DV33-12BAXI	121	0	288	80	0		
BK48DZAAAL	G	113303	R2	CY7C1081DV33-12BAXI	121	0	168	77	0		
BK48DZAAAL	G	113303	R2	CY7C1081DV33-12BAXI	121	0	288	76	0		
BK48DLBLL	G	MR113033	R1	CY62187EV30LL-55BAXI	121	0	168	30	0		
BK48DLBLL	G	MR113033	R1	CY62187EV30LL-55BAXI	121	0	288	29	0		



BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	121	0	168	30	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	121	0	288	82	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	121	0	168	82	0
BK121BGAGL	RA	121106	R2	CYUSB3014-BZXIES	121	0	288	82	0

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

Sum

14 records 965 0

FBGA (1.0-1.27)

BB165AHLE	G	MR112063	R1	CY7C1420SV18-250BZC	121	0	288	30	0
BB165AHLE	G	MR112063	R1	CY7C1420SV18-250BZC	121	0	168	30	0
BB165BILE	RA	AR1131021	R1	CY7C1412BV18-200BZI	121	0	288	6	0
BB165AHLE	G	MR113034	R1	CY7C1420SV18-250BZC	121	0	168	29	0
BB165AHLE	G	MR113034	R1	CY7C1420SV18-250BZC	121	0	288	27	0
BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	121	0	168	30	0
BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	121	0	288	24	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	121	0	168	29	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	121	0	288	28	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	121	0	168	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	121	0	288	21	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	121	0	288	9	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	121	0	168	27	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	121	0	288	26	0
BB165GABLE	RA	NR112001	R5	CY7C1512KV18-250BZC	121	0	168	77	0
BB165GABLE	RA	NR112001	R5	CY7C1512KV18-250BZC	121	0	288	77	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	121	0	168	30	0

Summary for Package Family: FBGA (1.0-1.27)

Sum

17 records 530 0



FBGA (1.0-1.27, Pb-free)

BW209FAALL	GQ	102505	R5	CYF0072V33L-133BGXI	121	0	168	75	0
BW209FAALL	GQ	102505	R5	CYF0072V33L-133BGXI	121	0	288	74	0
BW165GAALL	RA	MR112045	R1	CY7C1512KV18-250BZXC	121	0	288	25	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	121	0	168	30	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	121	0	288	14	0
BW165RJALL	RA	MR113074	R1	CY7C1412KV18-250BZXI	121	0	168	30	0
BW165RJALL	RA	MR113074	R1	CY7C1412KV18-250BZXI	121	0	288	30	0
BW165BUALL	G	113007	R1	CY7C1512KO	121	0	168	80	0
BW165BUALL	G	113007	R1	CY7C1512KO	121	0	288	80	0
BW165BUALL	G	113007	R2	CY7C1512KO	121	0	168	80	0
BW165BUALL	G	113007	R2	CY7C1512KO	121	0	288	80	0
BW100EAGL	G	MR113025	R1	CYP15G0101DXB-BBXC	121	0	168	30	0
BW100EAGL	G	MR113025	R1	CYP15G0101DXB-BBXC	121	0	288	30	0
BW165RJALL	RA	MR114039	R1	CY7C1414KV18-250BZXI	121	0	168	30	0
BW165RJALL	RA	MR121035	R1	CY7C1414KV18-250BZXC	121	0	168	30	0
BW165GAALL	RA	NR112001	R4	CY7C1565KV18-500BZXI	121	0	168	76	0
BW165GAALL	RA	NR112001	R4	CY7C1565KV18-500BZXI	121	0	288	76	0
BW165RBALL	RA	NR112001	R6	CY7C1570KV18-450BZXC	121	0	168	75	0
BW165RBALL	RA	NR112001	R6	CY7C1570KV18-450BZXC	121	0	288	75	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	121	0	288	104	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	121	0	288	120	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	121	0	288	99	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	121	0	288	120	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	121	0	288	90	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	121	0	288	95	0



BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	121	0	288	95	0
BW165RJALL	RA	MR121035	R1	CY7C1414KV18-250BZXC	121	0	288	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	121	0	288	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	121	0	168	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	121	0	168	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	121	0	288	30	0
BW165RJALL	RA	MR122009	R1	CY7C1412KV18-250BZXI	121	0	168	30	0
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	121	0	168	30	0
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	121	0	288	30	0

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

34 records 1983 0

PBGA (1.27)

BG119SALE	G	MR114040	R1	CY7C1366C-166BGC	121	0	168	29	
BG119SALE	G	MR114040	R1	CY7C1366C-166BGC	121	0	288	29	

**Summary for Package Family: PBGA (1.27)
Sum**

2 records 58 0

FLIPCHIP CSP (Pb-Free)

FN81AGAN	AU	MR112068	R1	CYWB0124ABX-FDXI	121	0	168	30	0
FN81AGAN	AU	MR112068	R1	CYWB0124ABX-FDXI	121	0	288	30	0
FN81AAKRCD	GQ	MR112069	R1	CYWB0124ABX-FDXI	121	0	288	30	0
FN81AAKRCD	GQ	MR112069	R1	CYWB0124ABX-FDXI	121	0	168	30	0
FN49	AU	113211	R0	8C20324DC	121	0	168	66	0
FN49ABAAAL	AU	113211	R1A	CY8CTMA300E-49FNXIT	121	0	168	73	0
FN49	AU	113211	R3	CY8CTMA340-FN1-09	121	0	168	62	0
FN49ABAAAL	AU	113211	R4	CP7457KTF	121	0	168	76	0
FN49ABDRCD	DT	114105	R1	CY8CTMA3405-FNI-09KD	121	0	96	87	0



FB131ATBCD	AU	103501	R1	CYWB0263BB-FBXIES	121	0	288	72	0
FB131ATBCD	AU	103501	R1A	CYWB0263BB-FBXIES	121	0	96	81	0
FB131ATBCD	AU	103501	R1A	CYWB0263BB-FBXIES	121	0	168	79	0
FB131ATBCD	AU	103501	R2B	CYWB0263BB-FBXIES	121	0	96	82	0
FB131ATBCD	AU	103501	R2B	CYWB0263BB-FBXIES	121	0	168	82	0
FN49	DT	113102	R1	CY8CTMA340-FNI-09	121	0	96	80	0
FN30BBTRFP	AU	114003	R1	CY8C20767-24FDXCES	121	0	96	71	0
FN49	AU	114103	R1	CY8CTMA340-FN1-09	121	0	168	63	0
FN49ABAAAL	AU	114103	R2A	CP7457KTF	121	0	168	76	0
FN49ABAAAL	AU	MR112078	R1	CG7411AMT	121	0	168	30	0
FN49ABAAAL	AU	MR112078	R1	CG7411AMT	121	0	288	26	0
FN81AGAN	AU	MR113060	R1	CYWB0124ABX-FDXIT	121	0	168	30	0
FN49ACAAAL	GQ	MR113072	R1	CY8CTMA340-FNI-09T	121	0	168	30	0
FN81AGAN	AU	MR114061	R1	CYWB0124ABX-FDXI	121	0	168	30	0
FN81AGAN	AU	MR114061	R1	CYWB0124ABX-FDXI	121	0	288	30	0

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

Sum

24

records

1346

0

PBGA (Cavity/Heat Sink, Pb-free)

BJ256L2GL	G	113003	R1	CYP15G0401DXB-BGXC	121	0	168	77	0
BJ256L2GL	G	113003	R1	CYP15G0401DXB-BGXC	121	0	288	77	0
BJ256L2GL	G	113003	R2	CYP15G0401DXB-BGXC	121	0	168	77	0
BJ256L2GL	G	113003	R2	CYP15G0401DXB-BGXC	121	0	288	77	0
BJ256L2GL	G	MR112057	R1	CYV15G0104TRB-BGXC	121	0	168	30	0
BJ256L2GL	G	MR112057	R1	CYV15G0104TRB-BGXC	121	0	288	30	0
BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	121	0	168	30	0
BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	121	0	288	30	0



**Summary for Package Family: PBGA
(Cavity/Heat Sink, Pb-free)
Sum**

8

records

428

0

PDIP (Pb-Free)

PZ243AAAGN	X	MR113012	R1	CY7C63743C-PXC	121	0	168	30	0
PZ243AAAGN	X	MR113012	R1	CY7C63743C-PXC	121	0	288	30	0
PZ183DPDGN	RA	MR113011	R1	CY7C63723C-PXC	121	0	168	30	0
PZ183DPDGN	RA	MR113011	R1	CY7C63723C-PXC	121	0	288	28	0
PZ183DPBGN	RA	MR113087	R1	CS6632AF	121	0	168	30	0
PZ183DPBGN	RA	MR113087	R1	CS6632AF	121	0	288	30	0
PZ183EAAGN	X	MR114021	R1	CY7C63723C-PXC	121	0	168	30	0
PZ183EAAGN	X	MR114021	R1	CY7C63723C-PXC	121	0	288	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	121	0	168	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	121	0	288	30	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	121	0	168	30	0
PZ283ACAGL	X	MR121051	R1	CY7C199CN-15PXC	121	0	288	28	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	121	0	288	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	121	0	168	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	121	0	288	30	0
PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	121	0	168	30	0
Sum			16					476	0

PLCC (Pb-Free)

JZ32RBGAN	M	MR113005	R1	CY7B991V-5JXC	121	0	288	30	0
JZ32RBGAN	M	MR113005	R1	CY7B991V-5JXC	121	0	168	30	0
JZ52SGGAAN	M	113405	R1	CY7C136E-55JXC	121	0	288	78	0
JZ52SGGAAN	M	113405	R1	CY7C136E-55JXC	121	0	168	80	0



JZ52SFGAN	M	MR114045	R1	CY7C136-25JXC	121	0	168	30	0
JZ52SFGAN	M	MR114045	R1	CY7C136-25JXC	121	0	288	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	121	0	168	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	121	0	288	30	0

Summary for Package Family: PLCC (Pb-Free)

8 records

Sum

338 0

PQFP (Pb-free)

NZ52DXGAN	G	MR112060	R1	CY7C136-55NXCT	121	0	288	30	0
NZ52EAALL	M	113405	R3	CY7C136E-55JXC	121	0	168	78	0
NZ52EAALL	M	113405	R3	CY7C136E-55JXC	121	0	288	76	0
NZ52DXGAN	G	MR113056	R1	CY7C136A-55NXI	121	0	168	30	0
NZ52DXGAN	G	MR113056	R1	CY7C136A-55NXI	121	0	288	30	0
NZ52DXGAN	G	MR114028	R1	CY7C136A-55NXI	121	0	168	30	0
NZ52DXGAN	G	MR114028	R1	CY7C136A-55NXI	121	0	288	30	0
NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	121	0	168	30	0
NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	121	0	288	30	0

Summary for Package Family: PQFP (Pb-free)

9 records

Sum

364 0

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

LG16ABAALL	L	113302	R1	CY8C20236A-24LKXA	121	0	96	80	0
LG16ABAALL	L	113302	R1	CY8C20236A-24LKXA	121	0	168	80	0
LG16ABAALL	L	113302	R2	CY8C20236A-24LKXA	121	0	96	78	0
LG16ABAALL	L	113302	R2	CY8C20236A-24LKXA	121	0	168	78	0
LG16ABAALL	L	113302	R3	CY8C20236A-24LKXA	121	0	96	80	0
LG16ABAALL	L	113302	R3	CY8C20236A-24LKXA	121	0	168	79	0
LG16ADAAAL	CA	114801	R1	CY8C20236A-24LKXIKC	121	0	168	77	0



LG16AQAAAL	G	114903	R1	CY8C20236A-24LKXI	121	0	168	120	0
LG16AQAAAL	G	114903	R2	CY8C20236A-24LKXI	121	0	168	120	0
LG16AQAAAL	G	114903	R3	CY8C20236A-24LKXI	121	0	168	120	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	121	0	168	113	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	121	0	168	120	0
LG16ABAALL	L	MR112052	R1	CP7194FT	121	0	288	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	121	0	168	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	121	0	288	30	0
LG16ABAALL	L	MR113029	R1	CS7412AT	121	0	168	30	0
LG16ABAALL	L	MR113029	R1	CS7412AT	121	0	288	30	0
LG16ABAALL	L	MR114030	R2	CY8C20236A-24LKXIT	121	0	168	30	0
LG16ABAALL	L	MR114032	R2	CY8C20236A-24LKXIT	121	0	168	30	0
LG16ABAALL	L	MR114030	R2	CY8C20236A-24LKXIT	121	0	288	30	0
LG16ABAALL	L	MR114032	R2	CY8C20236A-24LKXIT	121	0	288	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	121	0	168	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	121	0	288	29	0
LG16AQAAAL	G	MR122031	R1	CY7C64315-16LKXCT	121	0	168	30	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	121	0	96	90	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	121	0	168	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	121	0	96	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	121	0	168	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	121	0	96	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	121	0	168	89	0

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

30

records

Sum

2043

0



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

LK32AABAGL	L	MR114033	R2	CG7361AMT	168	30	0
Summary for Package Family: QFN Punch Type, Pb-Free)		(0.6mm,	1	records			
Sum						30	0

QFN (Punch Type, Pb-Free)

LY24BGAGL	L	MR112059	R1	CY8C21323-24LFXIT	121	0	288	30	0
LY24BGAGL	L	MR112059	R1	CY8C21323-24LFXIT	121	0	168	30	0
LY40CGAGR	L	MR113023	R1	CYRF69213-40LFXC	121	0	168	30	0
LY40CGAGR	L	MR113023	R1	CYRF69213-40LFXC	121	0	288	30	0
LY24BGAGL	L	MR113040	R1	CY8C21323-24LFXIT	121	0	168	30	0
LY24BGAGL	L	MR113040	R1	CY8C21323-24LFXIT	121	0	288	30	0
LY56DGAGL	L	MR114035	R1	CY8CTMG120-56LFXA	121	0	96	30	0
LY56DGAGL	L	MR114035	R1	CY8CTMG120-56LFXA	121	0	168	30	0
LY56AGAGL	L	MR114036	R1	CY7C65630-56LFXA	121	0	96	30	0
LY56AGAGL	L	MR114036	R1	CY7C65630-56LFXA	121	0	168	30	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	121	0	96	30	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	121	0	168	30	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	121	0	168	30	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	121	0	96	30	0
Summary for Package Family: QFN (Punch Type, Pb-Free)			14	records					
Sum							420	0	

QFN (Saw Type, Pb-Free)

LQ48AQAAAL	G	112105	R3	CY8CTMA301E5-48LQXI	121	0	288	80	0
LT88AAAAAL	RA	113002	R2	CY8CTMA884LTI-13ES	121	0	168	77	0



LQ48AAAAAL	R	MR113039	R1	CY8CTMA340-48LQI-01	121	0	168	30	0
LQ48AAAAAL	R	MR113039	R1	CY8CTMA340-48LQI-01	121	0	288	30	0
LQ48AAAAAL	RA	AR1131017	R1	CY8CTMA340-48LQI-09	121	0	168	21	0
LQ48AAAAAL	RA	AR1131017	R1	CY8CTMA340-48LQI-09	121	0	288	21	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	121	0	168	30	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	121	0	288	30	0
LT88AAAAAL	RA	113002	R1B	CY8CTMA884LTI-13ES	121	0	168	74	0
LT88AAAAAL	RA	113002	R1B	CY8CTMA884LTI-13ES	121	0	288	74	0
LQ48AAAAAL	RA	113211	R1	CY8CTMA340-48LQI-09	121	0	168	78	0
LQ48AAAAGL	RA	113905	R1	CY8CTMA443-48LQIES2	121	0	168	77	0
LQ48AAAAGL	RA	113905	R1	CY8CTMA443-48LQIES2	121	0	288	77	0
LQ48AQAAAL	G	113905	R3	CY8CTMA443-48LQIES	121	0	168	80	0
LQ48AQAAAL	G	113905	R3	CY8CTMA443-48LQIES	121	0	288	80	0
LQ48AQAAAL	G	113905	R4	CY8CTMA443-48LQIES	121	0	168	80	0
LQ48AQAAAL	G	113905	R4	CY8CTMA443-48LQIES	121	0	288	80	0
LQ36ABAAAL	RA	114301	R1A	CY8CTMA300E-36LQXI	121	0	168	80	0
LQ36ABAAAL	RA	114301	R2A	CY8CTMA300E-36LQXI	121	0	168	80	0
LQ36ABAAAL	RA	114301	R3A	CY8CTMA300E-36LQXI	121	0	168	80	0
LQ48AAAAGL	RA	112207	R1	CY8CTMA443-48LQIES	121	0	168	77	0
LQ48AAAAGL	RA	112207	R1	CY8CTMA443-48LQIES	121	0	288	77	0
LT88AAAAAL	RA	113002	R2-Split1	CY8CTMA884LTI-13ES	121	0	288	76	0
LT88AAAAAL	RA	113002	R2-Split2	CY8CTMA884LTI-13ES	121	0	288	1	0
LT68YAAAAL	G	113603	R1	CY8C3865LTI-014	121	0	168	77	0
LT68YAAAAL	G	113603	R2	CY8C3865LTI-014	121	0	168	77	0
LT88AAAAAL	RA	113804	R1	CY8CTMA884LTI-13ES	121	0	168	78	0
LT88AAAAAL	RA	113804	R1	CY8CTMA884LTI-13ES	121	0	288	78	0



LT88AAAAAL	RA	113804	R2	CY8CTMA884LTI-13ES	121	0	168	80	0
LT88AAAAAL	RA	113804	R2	CY8CTMA884LTI-13ES	121	0	288	80	0
LQ48AQAAAL	G	114101	R1	CY8CTMA443-48LQIES	121	0	168	80	0
LQ48AQAAAL	G	114101	R2	CY8CTMA443-48LQIES	121	0	168	80	0
LT68ADAAGL	RA	114110	R1A	CY8C5568LTI-114	121	0	288	80	0
LT68ADAAGL	RA	114110	R2A	CY8C5568LTI-114	121	0	168	80	0
LT68ADAAGL	RA	114110	R2A	CY8C5568LTI-114	121	0	288	80	0
LQ24AQAAAL	G	114401	R1	CY7C63803-LQXC	121	0	168	220	0
LQ24AQAAAL	G	114401	R2	CY8C20324-12LQXI	121	0	168	220	0
LQ32QAAAAAL	G	114401	R3	CY8CTMG240-LQI-01	121	0	168	220	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	121	0	168	100	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	121	0	168	100	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	121	0	168	100	0
LQ56AQAAAL	G	114404	R1	CY8C24794-24LQXI	121	0	168	100	0
LQ56AQAAAL	G	114404	R2	CY8C24794-24LQXI	121	0	168	100	0
LQ56AQAAAL	G	114404	R3	CY8C24794-24LQXI	121	0	168	100	0
LT68ADAAGL	RA	114407	R1	CY8C5568LTI-114	121	0	96	72	0
LT68ADAAGL	RA	114407	R1	CY8C5568LTI-114	121	0	168	80	0
LT68ADAAGL	RA	114407	R1	CY8C5568LTI-114	121	0	288	80	0
LT68ADAAGL	RA	114407	R2	CY8C5568LTI-114	121	0	168	68	0
LT56BDAAGL	AE	114801	R3	CP6944DA	121	0	168	79	0
LQ48AAAAAL	RA	114801	R2	CY8CTMA340-48LQI-03	121	0	168	80	0
LQ48AAAAAL	RA	114801	R2	CY8CTMA340-48LQI-03	121	0	176	80	0
LT40ABAAAL	G	114904	R1	CYRF6986-40LTXC	121	0	168	120	0
LT40ABAAAL	G	114904	R2	CYRF6986-40LTXC	121	0	168	120	0
LT40ABAAAL	G	114904	R3	CYRF6986-40LTXC	121	0	168	120	0



LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	121	0	168	120	0
LT48CQAAAL	G	114905	R2	CYWUSB6934-48LTXC	121	0	168	120	0
LT48DQAAAL	G	114905	R3	CY8C3866LTI-068	121	0	168	120	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	121	0	168	120	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	121	0	168	120	0
LT68YAAAAL	G	114906	R3	CY8C3866LTI-030	121	0	168	120	0
LT32BBAAAL	G	114907	R1	CY8C21434-24LTXI	121	0	168	120	0
LT32BBAAAL	G	114907	R2	CY22391LTXC-06	121	0	168	126	0
LT32BBAAAL	G	114907	R3	CY7C63833-LTXC	121	0	168	120	0
LQ44AAAAALN	G	120407	R1	CY8CTMA443-44LQIES	121	0	168	80	0
LQ44AAAAALN	G	120407	R1	CY8CTMA443-44LQIES	121	0	168	80	0
LQ44AAAAALN	G	120407	R1	CY8CTMA443-44LQIES	121	0	288	79	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	121	0	168	30	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	121	0	288	30	0
LT32BAAAGL	CA	MR113021	R1	CY8C21434-24LTXIT	121	0	168	30	0
LT32BAAAGL	CA	MR113021	R1	CY8C21434-24LTXIT	121	0	288	30	0
LT48ABBAAL	MB	MR113024	R1	CY8C20646A-24LTXI	121	0	168	30	0
LT56BDAAGL	AE	MR113050	R1	CG7158DMT	121	0	168	30	0
LT56BDAAGL	AE	MR113050	R1	CG7158DMT	121	0	288	30	0
LQ48AAAAAL	RA	MR113059	R1	CG7415AF	121	0	168	30	0
LQ48AAAAAL	RA	MR113059	R1	CG7415AF	121	0	288	30	0
LQ36AAAAAL	L	MR113075	R1	CY8CTMA375-LQI-01	121	0	168	78	0
LQ36AAAAAL	L	MR113075	R1	CY8CTMA375-LQI-01	121	0	288	78	0
LQ48AAAAAL	RA	MR113075	R2	CY8CTMA340-48LQI-01T	121	0	168	80	0
LQ48AAAAAL	RA	MR113075	R2	CY8CTMA340-48LQI-01T	121	0	288	80	0
LQ36AAAAAN	MB	MR113075	R3	CY8CTMA300E-36LQXI	121	0	168	80	0



LQ36AAAAAN	MB	MR113075	R3	CY8CTMA300E-36LQXI	121	0	288	80	0
LQ48AAAAAL	RA	MR113075	R4	CY8CTMA340-48LQI-01T	121	0	168	80	0
LQ48AAAAAL	RA	MR113075	R4	CY8CTMA340-48LQI-01T	121	0	288	80	0
LQ48AAAAAL	RA	MR113075	R5	CY8CTMA340-48LQI-01T	121	0	168	80	0
LQ48AAAAAL	RA	MR113075	R5	CY8CTMA340-48LQI-01T	121	0	288	80	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	121	0	168	30	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	121	0	168	30	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	121	0	288	30	0
LT48ABBAAL	MB	MR114014	R1	CP7408AT	121	0	168	30	0
LQ36AAAAAN	MB	MR114015	R1	CY8CTMA340-LQI-01T	121	0	168	30	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	121	0	168	30	0
LQ36AAAAAL	L	MR114031	R2	CP7340ATT	121	0	168	30	0
LT48AQAAAL	G	MR114071	R2	CY8C20636A-24LTXI	121	0	168	30	0
LQ48AQAAAL	G	MR121005	R1	CY8CTMA340-48LQI-01T	121	0	168	30	0
LT48CQAAAL	G	MR121009	R1	CYWUSB6935-48LTXIKG	121	0	168	30	0
LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	121	0	168	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	121	0	168	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	121	0	168	30	0
LT56BDAAGL	AE	MR121038	R1	CG7243AMT	121	0	168	30	0
LQ36ABAAAL	RA	NR104002	R2A	CP7248AT	121	0	288	25	0
LQ48AAAAAL	RA	NR104003	R2A	CY8CTMA300E5-48LQXI	121	0	288	25	0
LQ56ABAAAL	MB	NR113001	R1	CY8C24794-24LQXIT	121	0	168	30	0
LQ56ABAAAL	MB	NR113001	R1	CY8C24794-24LQXIT	121	0	288	30	0
LQ56ABAAAL	MB	NR113001	R2	CY8C24794-24LQXIT	121	0	168	30	0
LQ56ABAAAL	MB	NR113001	R2	CY8C24794-24LQXIT	121	0	288	30	0
LQ56ABAAAL	MB	NR113001	R3	CY8C24794-24LQXIT	121	0	168	30	0



LQ56ABAAAL	MB	NR113001	R3	CY8C24794-24LQXIT	121	0	288	30	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	121	0	168	25	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	121	0	288	24	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	121	0	168	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	121	0	288	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	121	0	168	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	121	0	288	25	0
LT88AAAAAL	RA	120309	R1	CY8CTMA884LTI-13	121	0	288	78	0
LT88AAAAAL	RA	120309	R2	CY8CTMA884LTI-13	121	0	168	80	0
LT88AAAAAL	RA	120309	R2	CY8CTMA884LTI-13	121	0	288	79	0
LQ48AEAAAL	RA	121105	R1	CY8CTMA443-48LQI	121	0	168	80	0
LQ48AEAAAL	RA	121105	R1	CY8CTMA443-48LQI	121	0	288	80	0
LQ48AEAAAL	RA	121105	R2	CY8CTMA443-48LQI	121	0	168	80	0
LQ48AEAAAL	RA	121105	R2	CY8CTMA443-48LQI	121	0	288	80	0
LQ48AEAAAL	RA	121105	R3	CY8CTMA443-48LQI	121	0	168	80	0
LQ48AEAAAL	RA	121105	R3	CY8CTMA443-48LQI	121	0	288	80	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	121	0	288	30	0
LT48ABBAAL	MB	MR114014	R1	CP7408AT	121	0	288	30	0
LT48AQAAAL	G	MR114071	R2	CY8C20636A-24LTXI	121	0	288	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	121	0	288	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	121	0	288	30	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	121	0	168	30	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	121	0	96	30	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	121	0	168	30	0
LT56BDAAGL	AE	MR121038	R1	CG7243AMT	121	0	288	27	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	121	0	96	30	0



LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	121	0	168	30	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	121	0	168	30	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	121	0	288	30	0
LT56YAAAAL	G	MR122027	R1	CY7C65640A-LTXC	121	0	168	30	0
LQ32QAAAAL	G	MR122028	R1	CY8C20446A-24LQXI	121	0	168	30	0
LT48CQAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	121	0	96	90	0
LT48CQAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	121	0	168	90	0
LT48CQAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	121	0	96	90	0
LT48CQAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	121	0	168	90	0
LT48CQAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	121	0	96	90	0
LT48CQAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	121	0	168	90	0
LQ48AEAAAAL	RA	NR122003	R1	CY8CTMA463-48LQI	121	0	168	25	0
LQ48AEAAAAL	RA	NR122003	R2	CY8CTMA463-48LQI	121	0	168	25	0
LQ48AEAAAAL	RA	NR122003	R3	CY8CTMA463-48LQI	121	0	168	25	0
LT48BAAAAN	MB	RR114007	R1	CG7382AMT	121	0	168	77	0

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

147

records

9565

0

QSOP (Pb-Free)

SQ2414ABGN	R	MR111076	R1	CY7C63743C-QXC	121	0	288	30	0
SQ2414ACGN	JT	MR114029	R2	CY7C63823-QXC	121	0	168	30	0
SQ2414ACGN	JT	MR121036	R1	CY7C63823-QXC	121	0	168	30	0
SQ2414ACGN	JT	NR113002	R1	CY7C63823-QXC	121	0	168	25	0
SQ2414ACGN	JT	NR113002	R1	CY7C63823-QXC	121	0	288	25	0

Summary for Package Family: QSOP (Pb-Free)

5

records

Sum

140

0

SNC (Pb-Free)



SY2831BBLN	R	MR113001	R1	CG6715AMT	121	0	168	30	0
SY2831BBLN	R	MR113001	R1	CG6715AMT	121	0	288	30	0
SY2831BCLN	JT	MR114017	R1	CY62256NLL-70SNXC	121	0	168	30	0
SY2831BCLN	JT	MR114017	R1	CY62256NLL-70SNXC	121	0	288	30	0

Summary for Package Family: SNC (Pb-Free)

4 records

Sum

120 0

SOIC (Pb Free)

SZ323ACAGR	M	MR111038	R1A	STK14C88-3NF45ITR	121	0	168	30	0
SZ323ACAGR	M	MR111038	R1A	STK14C88-3NF45ITR	121	0	288	30	0
SZ183CPEAN	RA	AR1131009	R1	CY7C63723C-SXC	121	0	168	22	0
SZ324513N	R	MR112035	R1	CY62128BNLL-70SXET	121	0	168	30	0
SZ324513N	R	MR112035	R1	CY62128BNLL-70SXET	121	0	288	30	0
SZ815PAEGN	RA	MR114001	R1	CY2305SXI-1H	121	0	168	30	0
SZ815PAEGN	RA	MR114001	R1	CY2305SXI-1H	121	0	288	30	0
SZ0815TAGN	T	111403	R1	CY25402SXC-007	121	0	168	80	0
SZ0815TAGN	T	111403	R1	CY25402SXC-007	121	0	288	80	0
SZ0815TAGN	T	111403	R2	CY25402SXC-007	121	0	168	80	0
SZ0815TAGN	T	111403	R2	CY25402SXC-007	121	0	288	80	0
SZ28	JT	113907	R1	8C294665A	121	0	168	77	0
SZ28327BGL	JT	113907	R2	8C294665A	121	0	168	77	0
SZ28	JT	113907	R3	8C294665A	121	0	168	77	0
SZ324513AN	JT	115206	R1	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	115206	R1	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	115206	R2	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	115206	R2	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	115206	R3	CY62128BNLL-70SXE	121	0	96	80	0



SZ324513AN	JT	115206	R3	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	120110	R1	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	120110	R1	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	120110	R2	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	120110	R2	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	120110	R3	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	120110	R3	CY62128BNLL-70SXE	121	0	168	80	0
SZ815CGAAS	M	MR112007	R1	CY2305CSXA-1HT	121	0	168	29	0
SZ815CGAAS	M	MR112007	R1	CY2305CSXA-1HT	121	0	288	29	0
SZ1615FAL	T	MR112065	R1	CY7C63803-SXC	121	0	168	30	0
SZ1615FAL	T	MR112065	R1	CY7C63803-SXC	121	0	288	30	0
SZ28327BGL	R	MR112066	R1	CY8C27443-24SXI	121	0	168	30	0
SZ28327BGL	R	MR112066	R1	CY8C27443-24SXI	121	0	288	30	0
SZ324513BN	R	MR113002	R1	CY62128BNLL-55SXI	121	0	168	30	0
SZ324513BN	R	MR113002	R1	CY62128BNLL-55SXI	121	0	288	30	0
SZ1615KDGN	RA	MR113009	R1	CY2292FXC	121	0	168	30	0
SZ1615KDGN	RA	MR113009	R1	CY2292FXC	121	0	288	30	0
SZ183CPEAN	RA	MR113016	R1	CY7C63723C-SXC	121	0	168	30	0
SZ183CPEAN	RA	MR113016	R1	CY7C63723C-SXC	121	0	288	30	0
SZ28327BGL	R	MR113017	R1	CY8C21345-24SXI	121	0	168	30	0
SZ28327BGL	R	MR113017	R1	CY8C21345-24SXI	121	0	288	30	0
SZ323AEGAS	M	MR113035	R1	CY14B101LA-SZ25XIT	121	0	168	30	0
SZ323AEGAS	M	MR113035	R1	CY14B101LA-SZ25XIT	121	0	288	30	0
SZ1615FAL	T	MR113045	R1	CY23EP09SXC-1HT	121	0	168	30	0
SZ1615EGN	M	MR113071	R1	CY2309SXI-1H	121	0	168	30	0
SZ1615EGN	M	MR113071	R1	CY2309SXI-1H	121	0	288	30	0



SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	121	0	168	30	0
SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	121	0	288	30	0
SZ1615FAL	T	MR114019	R1	CY7C63801-SXC	121	0	168	30	0
SZ1615FAL	T	MR114019	R1	CY7C63801-SXC	121	0	288	30	0
SZ24315EGN	RA	MR114020	R1	CY7C63743C-SXCT	121	0	168	30	0
SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	121	0	96	30	0
SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	121	0	168	30	0
SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	121	0	288	30	0
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	121	0	168	30	0
SZ32451BLN	JT	MR121010	R1	CY7C53120E2-10SXI	121	0	168	30	0
SZ24315DGN	RA	MR121011	R1	CY7C63823-SXC	121	0	168	30	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	121	0	96	30	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	121	0	168	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	121	0	168	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	121	0	288	30	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	121	0	168	77	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	121	0	288	77	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	121	0	288	86	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	121	0	168	96	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	121	0	288	86	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	121	0	168	96	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	121	0	168	95	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	121	0	288	85	0
SZ1615DGN	M	MR121048	R1	CY8C21234-24SXI	121	0	168	30	0
SZ1615DGN	M	MR121048	R1	CY8C21234-24SXI	121	0	288	30	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	121	0	96	30	0



SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	121	0	168	30	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	121	0	168	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	121	0	96	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	121	0	168	30	0
SZ324513AN	JT	MR122012	R1	CY62128BNLL-70SXET	121	0	96	30	0
SZ324513AN	JT	MR122012	R1	CY62128BNLL-70SXET	121	0	168	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	121	0	288	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	121	0	168	30	0

Summary for Package Family: SOIC (Pb Free)

79 records
Sum 3759 0

SOJ

V243GAAAGN	X	MR112050	R1	CY7C197BN-15VCT	121	0	288	30	0
V243GAAAGN	X	MR113065	R1	CY7C197BN-15VC	121	0	168	30	0

Summary for Package Family: SOJ

2 records
Sum 60 0

SOJ (Pb-Free)

VZ3649BALN	R	AR1131004	R1	CY7C1049DV33-10VXI	121	0	288	18	0
VZ3649BALN	R	AR1131004	R1	CY7C1049DV33-10VXI	121	0	168	18	0
VZ32314BLL	R	MR112033	R1	CY7C1009D-10VXIT	121	0	288	30	0
VZ2847AAAR	OP	MR112051	R1	CY7C107D-10VXI	121	0	288	30	0
VZ444ACBLN	R	MR113049	R1	CG7109AM	121	0	168	30	0
VZ444ACBLN	R	MR113049	R1	CG7109AM	121	0	288	30	0
VZ28311KLL	R	MR113064	R1	CY7C1399BN-15VXAT	121	0	96	30	0
VZ28311KLL	R	MR113064	R1	CY7C1399BN-15VXAT	121	0	168	30	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	121	0	168	30	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	121	0	288	30	0



VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	121	0	168	30	0
VZ32314CLL	JT	MR121024	R1	CY7C1009D-10VXI	121	0	168	30	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	121	0	168	25	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	121	0	288	25	0
VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	121	0	168	25	0
VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	121	0	288	25	0
VZ3649BBLN	JT	NR114001	R1	CY7C1049D-10VXIKJ	121	0	168	25	0
VZ3649BBLN	JT	NR114001	R1	CY7C1049D-10VXIKJ	121	0	288	25	0
VZ444ADDLN	JT	NR114001	R2	CY7C1041DV33-10VXIKJ	121	0	168	25	0
VZ444ADDLN	JT	NR114001	R2	CY7C1041DV33-10VXIKJ	121	0	288	25	0
VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	121	0	288	30	0
VZ444ADCLN	JT	MR122038	R1	CY7C1041D-10VXIT	121	0	168	30	0

Summary for Package Family: SOJ (Pb-Free)

22

records

Sum

596

0

SSOP (Pb-Free)

SP483FBKGN	RA	AR1131008	R1	CY8C20536A-24PVXIT	121	0	168	22	0
SP483FBKGN	RA	AR1131008	R1	CY8C20536A-24PVXIT	121	0	288	22	0
SP2822BGL	M	MR111057	R1	CY8C21534-24PVXAT	121	0	288	30	0
SP28214GL	T	MR113052	R1	CY8C21534-24PVXI	121	0	168	30	0
SP28214GL	T	MR113052	R1	CY8C21534-24PVXI	121	0	288	30	0
SP28213GL	T	111402	R1	CY8C29466-24PVXI	121	0	168	80	0
SP28213GL	T	111402	R1	CY8C29466-24PVXI	121	0	288	80	0
SP28213GL	T	111402	R2	CY8C29466-24PVXI	121	0	168	80	0
SP28213GL	T	111402	R2	CY8C29466-24PVXI	121	0	288	80	0
SP2822BGL	M	MR112009	R1	CY8C21534-24PVXAT	121	0	96	30	0
SP2822BGL	M	MR112009	R1	CY8C21534-24PVXAT	121	0	168	30	0



SP2822BGL	M	MR112009	R1	CY8C21534-24PVXAT	121	0	288	30	0
SP282ABBGN	RA	MR112024	R1	CY8C24533-24PVXI	121	0	288	30	0
SP483ACGAN	R	MR113013	R1	CY8C20536A-24PVXIT	121	0	168	30	0
SP483ACGAN	R	MR113013	R1	CY8C20536A-24PVXIT	121	0	288	30	0
SP282ABBGN	RA	MR113014	R1	CY8C21534-24PVXI	121	0	168	30	0
SP282ABBGN	RA	MR113014	R1	CY8C21534-24PVXI	121	0	288	30	0
SP2822BGL	M	MR113037	R1	CY8C21534-24PVXA	121	0	96	30	0
SP2822BGL	M	MR113037	R1	CY8C21534-24PVXA	121	0	168	30	0
SP2822BGL	M	MR113037	R1	CY8C21534-24PVXA	121	0	288	29	0
SP2822BGL	M	MR114003	R1	CP7407ATT	121	0	96	30	0
SP2822BGL	M	MR114003	R1	CP7407ATT	121	0	168	30	0
SP2822BGL	M	MR114003	R1	CP7407ATT	121	0	288	30	0
SP282ABBGN	RA	MR114023	R1	CY8C24533-24PVXI	121	0	168	30	0
SP282ABBGN	RA	MR114023	R1	CY8C24533-24PVXI	121	0	288	30	0
SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	121	0	168	30	0
SP483FBKGN	RA	MR121019	R1	CY8C20536A-24PVXIT	121	0	168	30	0
SP282ABBGN	RA	MR121043	R1	CY8C27443-24PVXIT	121	0	168	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	121	0	168	30	0
SP483EBCAL	JT	NR113007	R1	CY8C27643-24PVXI	121	0	168	25	0
SP483EBCAL	JT	NR113007	R1	CY8C27643-24PVXI	121	0	288	25	0
SP563DBC GN	JT	NR113007	R2	CY7C68013A-56PVXC	121	0	168	25	0
SP563DBC GN	JT	NR113007	R2	CY7C68013A-56PVXC	121	0	288	25	0
SP563DBC GN	JT	NR113007	R3	CY7C68013A-56PVXC	121	0	168	25	0
SP563DBC GN	JT	NR113007	R3	CY7C68013A-56PVXC	121	0	288	25	0
SP483MBBGN	RA	MR114067	R2	CY8C3866PVI-021	121	0	168	30	0
SP483EBCAL	JT	MR114073	R2	CY8C29666-24PVXI	121	0	168	30	0



SP483EBCAL	JT	MR114073	R2	CY8C29666-24PVXI	121	0	288	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	121	0	168	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	121	0	288	30	0
SP563DBCNG	JT	MR121016	R1	CY7C68013A-56PVXC	121	0	288	30	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	121	0	96	29	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	121	0	168	28	0
SP282ABBGN	RA	MR121043	R1	CY8C27443-24PVXIT	121	0	288	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	121	0	288	30	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	121	0	96	30	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	121	0	168	30	0
SP282ABBGN	RA	MR122004	R1	CY8C27443-24PVXIT	121	0	168	30	0
SP282ABBGN	RA	MR122004	R1	CY8C27443-24PVXIT	121	0	288	30	0
SP2822BGL	M	MR122006	R1	CY8C21534-12PVXET	121	0	96	30	0
SP2822BGL	M	MR122006	R1	CY8C21534-12PVXET	121	0	168	30	0
Summary for Package Family: SSOP (Pb-Free)			51	records					
Sum								1680	0
TQFP									
A64IBAABL	JT	NR113005	R3	CY7C144AV-25ACKJ			168	25	0
A64IBAABL	JT	NR113005	R3	CY7C144AV-25ACKJ			168	25	0
Summary for Package Family: TQFP			2	records					
Sum								50	0
TQFP (Pb-Free)									
AZ100SFHAL	JT	110905	R4A	CY8C5568AXI-060	121	0	168	77	0
AZ100SFHAL	JT	110905	R4A	CY8C5568AXI-060	121	0	288	77	0
AZ100SFHAL	JT	111817	R4	CY8C5568AXI-060	121	0	168	77	0
AZ100SFHAL	JT	111817	R4	CY8C5568AXI-060	121	0	288	77	0



AZ32BXGAN	Q	MR112077	R1	CY7C4201V-15AXC	121	0	168	30	0
AZ32BXGAN	Q	MR112077	R1	CY7C4201V-15AXC	121	0	288	30	0
AZ44DGAGL	Q	MR112058	R1	CY7B995AXIT	121	0	168	30	0
AZ44DGAGL	Q	MR112058	R1	CY7B995AXIT	121	0	288	30	0
AZ32GXGAN	G	MR113046	R1	CY29940AXIT	121	0	168	30	0
AZ32GXGAN	G	MR113046	R1	CY29940AXIT	121	0	288	30	0
AZ100SFGAL	JT	RR114011	R1	CS7510AM	121	0	96	70	0
AZ100SFGAL	JT	RR114011	R1	CS7510AM	121	0	168	70	0
AZ100SFGAL	JT	RR114011	R1	CS7510AM	121	0	288	70	0
AZ100SFKAL	RA	112302	R1	CY8C5568AXI-060	121	0	168	77	0
AZ64JAAALL	M	113604	R4	CY7C144E-55JXC	121	0	168	79	0
AZ64JAAALL	M	113604	R4	CY7C144E-55JXC	121	0	288	79	0
AZ100SFHAL	JT	114110	R1B1	CY8C5568AXI-060	121	0	168	37	0
AZ100RRBLL	R	AR1131001	R1	CY7C1460AV33-200AXC	121	0	288	17	0
AZ100SFDAL	R	MR112003	R1	CY8C3245AXI-158	121	0	288	24	0
AZ100RUBLN	R	MR112043	R1	CY7C1350G-200AXC	121	0	288	28	0
AZ32GXGAN	G	MR112054	R1	CY29940AXCT	121	0	288	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	121	0	168	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	121	0	288	30	0
AZ52AAGAL	Q	MR113051	R1	CY29972AXI	121	0	168	30	0
AZ52AAGAL	Q	MR113051	R1	CY29972AXI	121	0	288	30	0
AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	121	0	168	29	0
AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	121	0	288	29	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	121	0	168	30	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	121	0	288	30	0
AZ100SFGAL	JT	MR114068	R1	CY8C3245AXI-158	121	0	168	30	0



AZ144AAAGR	Q	MR114081	R2	CY7C057V-12AXC	121	0	168	30	0
AZ144AAAGR	Q	MR114081	R2	CY7C057V-12AXC	121	0	288	30	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	121	0	168	30	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	121	0	288	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	121	0	96	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	121	0	168	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	121	0	288	30	0
AZ64IBABLN	JT	NR113005	R2	CY7C4265-10AXIKJ	121	0	168	25	0
AZ44SFHAN	JT	NR113005	R1	CY37032VP44-100AXCKJ	121	0	168	25	0
AZ44SFHAN	JT	NR113005	R1	CY37032VP44-100AXCKJ	121	0	288	25	0
AZ64IBABLN	JT	NR113005	R2	CY7C4265-10AXIKJ	121	0	288	25	0
AZ100SFEAL	JT	NR113006	R3	CY7C026AV-25AXIKJ	121	0	168	25	0
AZ100RUCLN	JT	NR113006	R1	CY7C68013A-100AXCKJ	121	0	168	25	0
AZ100RUCLN	JT	NR113006	R2	CY7C68013A-100AXIKJ	121	0	168	25	0
AZ100RUCLN	JT	NR113006	R2	CY7C68013A-100AXIKJ	121	0	288	25	0
AZ100RUCLN	JT	NR113006	R1	CY7C68013A-100AXCKJ	121	0	288	25	0
AZ100SFEAL	JT	NR113006	R3	CY7C026AV-25AXIKJ	121	0	288	25	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	121	0	168	30	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	121	0	288	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	121	0	168	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	121	0	288	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	121	0	96	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	121	0	168	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	121	0	168	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	121	0	288	30	0

Summary for Package Family: TQFP (Pb-Free)

55

records



Sum

2037 0

TSOP (Pb-free)

ZT28R2BCLN	JT	NR113004	R3	CY62256VNLL-70ZXC	121	0	168	25	0
ZT28R2BCLN	JT	MR114004	R1	CY62256VNLL-70ZXI	121	0	168	30	0
ZT28R2BCLN	JT	NR113004	R3	CY62256VNLL-70ZXC	121	0	288	25	0
ZT28R2BCLN	JT	MR114004	R1	CY62256VNLL-70ZXI	121	0	288	30	0
ZT28R4BAGL	JT	NR113004	R2	CY7C1399BN-12ZXC	121	0	168	25	0
ZT28R4BAGL	JT	NR113004	R2	CY7C1399BN-12ZXC	121	0	288	25	0
ZT32RABALL	T	MR113036	R1	CY62128EV30LL-45ZXI	121	0	168	29	0
ZT32RABALL	T	MR113036	R1	CY62128EV30LL-45ZXI	121	0	288	29	0
ZT32RBBALL	T	MR114065	R1	CY62128ELL-45ZXA	121	0	96	30	0
ZT32RBBALL	T	MR121034	R1	CY62128ELL-45ZXA	121	0	96	30	0
ZT32RBBALL	T	MR121034	R1	CY62128ELL-45ZXA	121	0	168	30	0
ZT32RBBALL	T	MR114065	R1	CY62128ELL-45ZXA	121	0	168	30	0

Summary for Package Family: TSOP (Pb-Free)

12 records

Sum

338 0

TSOP I (Pb-Free)

ZB32RKALL	T	MR112006	R1	CY62128EV30LL-45ZAXI	121	0	288	30	0
ZB32RKALL	T	MR113003	R1	CY62128EV30LL-45ZAXI	121	0	168	30	0
ZB32RKALL	T	MR113003	R1	CY62128EV30LL-45ZAXI	121	0	288	30	0
ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	121	0	168	30	0
ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	121	0	288	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	121	0	288	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	121	0	168	30	0
ZB32RHCALN	JT	NR113004	R1	CY62138FV30LL-45ZAXI	121	0	168	25	0
ZB32RHCALN	JT	NR113004	R1	CY62138FV30LL-45ZAXI	121	0	288	25	0



ZB32RHABL	JT	MR122021	R1	CY62138FV30LL-45ZAXA	121	0	96	30	0
ZB32RHABL	JT	MR122021	R1	CY62138FV30LL-45ZAXA	121	0	168	30	0

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

11 records

Sum 320 0

TSOP II (Pb-Free)

ZW444VCLL	R	111810	R1	CY62136FV30LL	121	0	168	90	0
ZW444VCLL	R	111810	R2	7A62136GC	121	0	168	90	0
ZW444VCLL	R	111810	R3	CY62136FV30LL	121	0	168	90	0
ZW54BGALL	G	MR113032	R1	CY7C1061DV33-10ZSXIT	121	0	168	30	0
ZW54BGALL	G	MR113032	R1	CY7C1061DV33-10ZSXIT	121	0	288	30	0
ZW444YBLL	R	AR1131002	R1	CY7C1041BN-15ZXIT	121	0	168	20	0
ZW444YBLL	R	AR1131002	R1	CY7C1041BN-15ZXIT	121	0	288	19	0
ZW444YBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	121	0	168	30	0
ZW444YBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	121	0	288	30	0
ZW444ALLR	G	MR113047	R1	CY7C1051DV33-10ZSXI	121	0	168	30	0
ZW444ALLR	G	MR113047	R1	CY7C1051DV33-10ZSXI	121	0	288	30	0
ZW444AKDLN	JT	111409	R4	7A134101FC-JTZWE	121	0	96	100	0
ZW444AKDLN	JT	111409	R4	7A134101FC-JTZWE	121	0	168	90	0
ZW324GALL	T	MR112015	R1	CY7C1019DV33-10ZSXIT	121	0	288	30	0
ZW324CBLL	T	MR113004	R1	CY62148ELL-45ZSXIT	121	0	168	30	0
ZW324CBLL	T	MR113004	R1	CY62148ELL-45ZSXIT	121	0	288	30	0
ZW44AAXAGL	RA	MR113031	R1	CY7C1020DV33-10ZSXI	121	0	168	30	0
ZW44AAXAGL	RA	MR113031	R1	CY7C1020DV33-10ZSXI	121	0	288	30	0
ZW444AAGLL	T	MR113043	R1	CY71041DV33-10ZSXI	121	0	168	30	0
ZW444AAGLL	T	MR113043	R1	CY71041DV33-10ZSXI	121	0	288	29	0



ZW324CBALR	T	MR114057	R1	CY62148EV30LL-45ZSXAT	121	0	96	30	0
ZW324CBALR	T	MR114057	R1	CY62148EV30LL-45ZSXAT	121	0	168	25	0
ZW444AHLL	R	MR114007	R1	CY62126EV30LL-55ZSXE	121	0	96	30	0
ZW444AHLL	R	MR114007	R1	CY62126EV30LL-55ZSXE	121	0	168	30	0
ZW444AHLL	R	MR114007	R1	CY62126EV30LL-55ZSXE	121	0	288	30	0
ZW444ALLR	G	MR114043	R1	CY7C1051DV33-10ZSXI	121	0	168	30	0
ZW444ALLR	G	MR114043	R1	CY7C1051DV33-10ZSXI	121	0	288	30	0
ZW44AAXAGL	RA	MR121003	R1	CY7C1021D-10ZSXIT	121	0	168	30	0
ZW44ABXAGL	RA	MR114027	R1	CY62137EV30LL-45ZSXI	121	0	168	30	0
ZW44ABXAGL	RA	MR114027	R1	CY62137EV30LL-45ZSXI	121	0	288	30	0
ZW44ADXAGL	RA	MR121018	R1	CY14B104NA-ZS45XIT	121	0	168	30	0
ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	121	0	168	30	0
ZW324FBGL	T	MR121026	R1	CY7C1019CV33-10ZXA	121	0	96	30	0
ZW324FBGL	T	MR121026	R1	CY7C1019CV33-10ZXA	121	0	168	30	0
Summary for Package Family: TSOP II (Pb-Free)			34	records					
Sum								1303	0
RTSOP (Pb-free)									
ZY28R2CLN	JT	MR114009	R1	CY62256VNULL-70ZRXIT	121	0	168	30	0
ZY28R2CLN	JT	MR114009	R1	CY62256VNULL-70ZRXIT	121	0	288	30	0
Summary for Package Family: RTSOP (Pb-free)			2	records					
Sum								60	0
TSSOP (Pb-Free)									
ZZ2014BGN	T	MR112047	R1	CY25404ZXI-003T	121	0	288	30	0
ZZ1620GDAN	RA	MR113010	R1	CY24293ZXI	121	0	168	30	0
ZZ1620GDAN	RA	MR113010	R1	CY24293ZXI	121	0	288	29	0
ZZ2014BGN	T	MR113053	R1	CY25404ZXI-003T	121	0	288	30	0



ZZ2014BGN	T	MR113053	R1	CY25404ZXI-003T	121	0	168	30	0
ZZ1620GBAN	RA	RR113013	R1	CY22388ZXC-27T	121	0	168	60	0
ZZ1620GBAN	RA	RR113013	R1	CY22388ZXC-27T	121	0	96	60	0
ZZ1620GBAN	RA	RR113013	R1A	CY22388ZXC-27T	121	0	96	13	0
ZZ1620GBAN	RA	RR113013	R1A	CY22388ZXC-27T	121	0	168	13	0
ZZ1614HAN	T	111405	R1	CY23FS04ZXC	121	0	288	78	0
ZZ1614HAN	T	111405	R1	CY23FS04ZXC	121	0	168	79	0
ZZ1614HAN	T	111405	R2	CY23FS04ZXC	121	0	288	79	0
ZZ1614HAN	T	111405	R2	CY23FS04ZXC	121	0	168	80	0
ZZ2014BGN	T	111408	R1	CYISM530AZXC	121	0	288	80	0
ZZ2014BGN	T	111408	R2	CYISM530AZXC	121	0	288	79	0
ZZ1620GBAN	RA	MR112028	R1	CY22393FXCT	121	0	288	30	0
ZZ1613HAN	T	MR113015	R1	CY2308ZXC-1H	121	0	168	30	0
ZZ1613HAN	T	MR113015	R1	CY2308ZXC-1H	121	0	288	30	0
ZZ1614HAN	T	MR114022	R1	CY22388ZXC-25T	121	0	168	30	0
ZZ1614HAN	T	MR114022	R1	CY22388ZXC-25T	121	0	288	30	0
ZZ1620GBAN	RA	MR114026	R1	CY22388ZXC-26T	121	0	168	30	0
ZZ1620GBAN	RA	MR114026	R1	CY22388ZXC-26T	121	0	288	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	121	0	168	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	121	0	288	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	121	0	168	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	121	0	288	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	121	0	168	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	121	0	288	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	121	0	168	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	121	0	288	30	0



ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	121	0	168	30	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	121	0	288	30	0

Summary for Package Family: TSSOP (Pb-Free)

32

records

Sum

1280

0

VFBGA (0.75-0.8, 0.3mm)

BV48ATALE	RA	MR113030	R1	CY62157DV30LL-55BVIT	121	0	168	30	0
BV48ATALE	RA	MR113030	R1	CY62157DV30LL-55BVIT	121	0	288	30	0
BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	121	0	168	30	0
BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	121	0	288	29	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	121	0	168	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	121	0	168	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	121	0	168	30	0
BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	121	0	288	30	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	121	0	288	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	121	0	288	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	121	0	288	30	0

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

11

records

Sum

329

0

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

BZ48ABCALL	AT	MR112064	R1	CY62126EV30LL-45BVXIT	121	0	288	30	0
BZ48CFAALL	G	MR113007	R1	CY62157EV30LL-45BVXIT	121	0	168	30	0
BZ48CFAALL	G	MR113007	R1	CY62157EV30LL-45BVXIT	121	0	288	30	0
BZ100HAALL	RA	MR113008	R1	CYWB0226ABS-BVXI	121	0	168	30	0
BZ100HAALL	RA	MR113008	R1	CYWB0226ABS-BVXI	121	0	288	30	0
BZ48ZEAALE	RA	MR113089	R1	CY62157EV18LL-55BVXIT	121	0	96	80	0



BZ48ZEAALE	RA	MR113089	R1	CY62157EV18LL-55BVXIT	121	0	168	79	0
BZ48ZEAALE	RA	MR113089	R1	CY62157EV18LL-55BVXIT	121	0	288	79	0
BZ48CRALL	G	MR113088	R1	CY62167EV30LL-45BVXI	121	0	96	80	0
BZ48CRALL	G	MR113088	R1	CY62167EV30LL-45BVXI	121	0	168	79	0
BZ48CRALL	G	MR113088	R1	CY62167EV30LL-45BVXI	121	0	288	79	0
BZ48CNAALL	G	MR113090	R1	CY62167DV30LL-55BVXI	121	0	96	80	0
BZ48CNAALL	G	MR113090	R1	CY62167DV30LL-55BVXI	121	0	168	6	0
BZ48CNAALL	G	MR113090	R1	CY62167DV30LL-55BVXI	121	0	168	73	0
BZ48CNAALL	G	MR113090	R1	CY62167DV30LL-55BVXI	121	0	288	79	0
BZ48CNAALL	G	MR113091	R1	CY62167DV30LL-55BVXI	121	0	96	80	0
BZ48CNAALL	G	MR113091	R1	CY62167DV30LL-55BVXI	121	0	168	74	0
BZ48CNAALL	G	MR113091	R1	CY62167DV30LL-55BVXI	121	0	168	6	0
BZ48CNAALL	G	MR113091	R1	CY62167DV30LL-55BVXI	121	0	288	77	0
BZ48CRALL	G	111605	R2	CY62167EV30LL-45BVXI	121	0	168	80	0
BZ48CRALL	G	111605	R2	CY62167EV30LL-45BVXI	121	0	288	78	0
BZ84AAAAAL	RA	112210	R1	CY8CTMA1036BZI-13ES	121	0	168	80	0
BZ84AAAAAL	RA	112210	R1	CY8CTMA1036BZI-13ES	121	0	288	80	0
BZ48DAGLL	RA	MR113028	R1	CY62137FV30LL-45BVXIT	121	0	168	26	0
BZ48DAGLL	RA	MR113028	R1	CY62137FV30LL-45BVXIT	121	0	288	26	0
BZ48CEAALL	G	MR113057	R1	CY62147EV30LL-45BVXA	121	0	96	30	0
BZ48CEAALL	G	MR113057	R1	CY62147EV30LL-45BVXA	121	0	168	28	0
BZ48CEAALL	G	MR113057	R1	CY62147EV30LL-45BVXA	121	0	288	26	0
BZ48CNAALL	G	MR114018	R1	CY62167DV30LL-55BVXI	121	0	168	30	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	121	0	168	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	121	0	168	30	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	121	0	288	103	0



BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	121	0	288	99	0
BZ48CEAALL	G	MR114006	R1	CY62147EV30LL-45B2XA	121	0	96	30	0
BZ48CEAALL	G	MR114006	R1	CY62147EV30LL-45B2XA	121	0	168	30	0
BZ48CNAALL	G	MR114018	R1	CY62167DV30LL-55BVXI	121	0	288	29	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	121	0	288	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	121	0	288	30	0
BZ48CEAALL	G	MR121025	R1	CY62147EV30LL-45BVXA	121	0	96	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	121	0	168	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	121	0	288	30	0
BZ48CEAALL	G	MR122011	R1	CY62147EV30LL-45BVXA	121	0	96	30	0

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

42

records

Sum

2116

0



Summary Detail -- TCT Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS	
UFBGA (Pb-free)												
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	150/-65	0	500	76	0			
BU84AAAAAL	G	121302	R2	CY8CTMA1036BUI-33ES2	150/-65	0	500	77	0			
BU84AAAAAL	G	121302	R3	CY8CTMA1036BUI-33ES2	150/-65	0	500	77	0			
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	150/-65	0	1000	76	0			
BU84AAAAAL	G	121302	R2	CY8CTMA1036BUI-33ES2	150/-65	0	1000	77	0			
BU84AAAAAL	G	121302	R3	CY8CTMA1036BUI-33ES2	150/-65	0	1000	77	0			
Summary for Package Family: UFBGA (Pb-free)			6	records								
Sum								460	0			
FBGA (0.75-0.8, 0.3mm)												
BA48ZGALE	G	MR113048	R1	CY7C1021BNV33L-15BAI	150/-65	0	500	30	0			
Summary for Package Family: FBGA (0.75-0.8, 0.3mm)			1	records								
Sum								30	0			
FBGA (0.75-0.8, 0.3mm, Pb-free)												
BK121AGAGL	RA	110501	R3	7C07101B	150/-65	0	1000	82	0			
BK121BGAGL	RA	102402	R2	CYUSB3014-BZXIES	150/-65	0	500	77	0			
BK121BGAGL	RA	102402	R2	CYUSB3014-BZXIES	150/-65	0	1000	77	0			
BK121CGAGL	GQ	102402	R3	CYUSB3014-BZXIES	150/-65	0	500	80	0			
BK121CGAGL	GQ	102402	R3	CYUSB3014-BZXIES	150/-65	0	1000	80	0			



BK48DZAAAL	G	113205	R1	CY7C1081DV33-12BAXI	150/-65	0	500	79	0
BK48DZAAAL	G	113205	R2	CY7C1081DV33-12BAXI	150/-65	0	500	77	0
BK48DZAAAL	G	113205	R3	CY7C1081DV33-12BAXI	150/-65	0	500	77	0
BK48DZAAAL	G	113205	R1	CY7C1081DV33-12BAXI	150/-65	0	500	80	0
BK48DZAAAL	G	113303	R1	CY7C1081DV33-12BAXI	150/-65	0	500	79	0
BK48DZAAAL	G	113303	R1	CY7C1081DV33-12BAXI	150/-65	0	1000	79	0
BK48DZAAAL	G	113303	R3	CY7C1081DV33-12BAXI	150/-65	0	500	77	0
BK48DZAAAL	G	113303	R2	CY7C1081DV33-12BAXI	150/-65	0	500	77	0
BK48DZAAAL	G	113303	R2	CY7C1081DV33-12BAXI	150/-65	0	1000	77	0
BK48DZAAAL	G	113303	R3	CY7C1081DV33-12BAXI	150/-65	0	1000	76	0
BK48DZAAAL	G	113303	R1	CY7C1081DV33-12BAXI	150/-65	0	500	80	0
BK121BGAGL	RA	104607	R2	CYUSB3014-BZXIES	150/-65	0	500	77	0
BK121BGAGL	RA	104607	R3	CYUSB3014-BZXI	150/-65	0	500	82	0
BK121BGAGL	RA	104607	R2	CYUSB3014-BZXIES	150/-65	0	1000	77	0
BK121BGAGL	RA	104607	R3	CYUSB3014-BZXI	150/-65	0	1000	82	0
BK48DLBLL	G	MR113033	R1	CY62187EV30LL-55BAXI	150/-65	0	500	30	0
BK48JAAALL	G	MR121088	R1	CY7C1071DV33-12BAXIT	150/-65	0	400	12	0
BK48JAAALL	G	MR121088	R1	CY7C1071DV33-12BAXIT	150/-65	0	500	12	0
BK48JAAALL	G	MR121088	R1	CY7C1071DV33-12BAXIT	150/-65	0	590	12	0
BK121BGAGL	RA	114603	R2	CYUSB3014-BZXIES	150/-65	0	500	81	0
BK121BGAGL	RA	114603	R2	CYUSB3014-BZXIES	150/-65	0	1000	81	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150/-65	0	500	81	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150/-65	0	1000	81	0



BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	150/-65	0	500	30	0
BK48DJALL	G	MR121049	R1	CY62177DV30LL-55BAXI	150/-65	0	500	27	0

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

Sum

30

records

2019

0

FBGA (1.0-1.27)

BB165GABLE	RA	MR104057	R1	CY7C1518KV18-333BZC	150/-65	0	1000	30	0
BB165AHLE	G	MR112063	R1	CY7C1420SV18-250BZC	150/-65	0	500	30	0
BB165AHLE	G	MR112063	R1	CY7C1420SV18-250BZC	150/-65	0	1000	30	0
BB165AHLE	G	MR113034	R1	CY7C1420SV18-250BZC	150/-65	0	500	30	0
BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	150/-65	0	500	30	0
BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	150/-65	0	1000	30	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	150/-65	0	500	30	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	150/-65	0	1000	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	150/-65	0	500	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	150/-65	0	1000	30	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	150/-65	0	500	30	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	150/-65	0	1000	29	0
BB165RBBLE	RA	NR112001	R1	CY7C1570KV18-400BZC	150/-65	0	500	75	0
BB165RBBLE	RA	NR112001	R1	CY7C1570KV18-400BZC	150/-65	0	1000	75	0
BB165GABLE	RA	NR112001	R2	CY7C1512KV18-350BZC	150/-65	0	500	77	0
BB165GABLE	RA	NR112001	R2	CY7C1512KV18-350BZC	150/-65	0	1000	77	0
BB165GABLE	RA	NR112001	R3	CY7C1518KV18-250BZC	150/-65	0	500	77	0
BB165GABLE	RA	NR112001	R3	CY7C1518KV18-250BZC	150/-65	0	1000	77	0



BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	150/-65	0	500	30	0
BB165BUALE	G	MR122029	R1	CY7C1512KV18-250BZC	150/-65	0	500	30	0

Summary for Package Family: FBGA (1.0-1.27)

20 records

Sum 877 0

FBGA (1.0-1.27, Pb-free)

BW209FAALL	GQ	102505	R5	CYF0072V33L-133BGXI	150/-65	0	55	74	0
BW209FAALL	GQ	102505	R5	CYF0072V33L-133BGXI	150/-65	0	500	73	0
BW209FAALL	GQ	102505	R5	CYF0072V33L-133BGXI	150/-65	0	1000	73	0
BW165GAALL	RA	MR112045	R1	CY7C1512KV18-250BZXC	150/-65	0	1000	30	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150/-65	0	500	30	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150/-65	0	1000	30	0
BW165RJALL	RA	MR113074	R1	CY7C1412KV18-250BZXI	150/-65	0	500	30	0
BW165RJALL	RA	MR113074	R1	CY7C1412KV18-250BZXI	150/-65	0	1000	30	0
BW165BUALL	G	113007	R1	CY7C1512KO	150/-65	0	500	80	0
BW165BUALL	G	113007	R2	CY7C1512KO	150/-65	0	500	80	0
BW165BUALL	G	113007	R3	CY7C1512KO	150/-65	0	500	80	0
BW165BUALL	G	113007	R3	CY7C1512KO	150/-65	0	1000	62	0
BW165RBALL	RA	112604	R1	7C1570QXO	150/-65	0	500	77	0
BW165RBALL	RA	112604	R1	7C1570QXO	150/-65	0	1000	77	0
BW165RTALL	RA	MR111086	R1	7C1614KO-**RABWC	150/-65	0	1000	10	0
BW165RTALL	RA	MR111086	R2	7C1614KO-**RABWC	150/-65	0	1000	10	0
BW165RTALL	RA	MR111086	R3	7C1614KO-**RABWC	150/-65	0	1000	10	0
BW100EAGL	G	MR113025	R1	cyv15g0101dxb-bbxc	150/-65	0	500	30	0



BW100EAGL	G	MR113025	R1	cyv15g0101dxb-bbxc	150/-65	0	1000	30	0
BW165RJALL	RA	MR114039	R1	CY7C1414KV18-250BZXI	150/-65	0	500	30	0
BW165RJALL	RA	MR114039	R1	CY7C1414KV18-250BZXI	150/-65	0	1000	30	0
BW165RJALL	RA	MR121035	R1	CY7C1414KV18-250BZXC	150/-65	0	500	29	0
BW165RJALL	RA	MR121035	R1	CY7C1414KV18-250BZXC	150/-65	0	1000	29	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	150/-65	0	1000	99	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	150/-65	0	1500	84	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	150/-65	0	2000	79	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	150/-65	0	1000	110	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	150/-65	0	1500	110	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	150/-65	0	2000	110	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	150/-65	0	1000	99	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	150/-65	0	1500	89	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	150/-65	0	2000	89	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150/-65	0	1000	110	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150/-65	0	1500	110	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150/-65	0	2000	110	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150/-65	0	500	100	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150/-65	0	1000	85	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150/-65	0	500	100	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150/-65	0	1000	95	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150/-65	0	500	100	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150/-65	0	1000	95	0



BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150/-65	0	2000	30	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150/-65	0	1500	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	150/-65	0	500	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	150/-65	0	1000	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	150/-65	0	500	30	30
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	150/-65	0	1000	30	30
BW165RJALL	RA	MR122009	R1	CY7C1412KV18-250BZXI	150/-65	0	500	30	28
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	150/-65	0	500	30	0

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

Sum

49 records
3048 0

PBGA (1.27)

BG119SALE	G	MR114040	R1	CY7C1366C-166BGC	150/-65	0	500	30	0
BG119SALE	G	MR114040	R1	CY7C1366C-166BGC	150/-65	0	1000	30	0

Summary for Package Family: PBGA (1.27)

Sum

2 records
60 0

FLIPCHIP CSP (Pb-Free)

FN81AGAN	AU	MR112068	R1	CYWB0124ABX-FDXI	125/-55	0	1000	30	0
FN81AGAN	AU	MR112068	R1	CYWB0124ABX-FDXI	125/-55	0	500	30	0
FN81AAKRCD	GQ	MR112069	R1	CYWB0124ABX-FDXI	125/-55	0	500	30	0
FN81AAKRCD	GQ	MR112069	R1	CYWB0124ABX-FDXI	125/-55	0	1000	30	0
FN49	AU	113211	R0	8C20324DC	125/-55	0	500	59	0
FN49	AU	113211	R0	8C20324DC	125/-55	0	500	80	0
FN49	AU	113211	R0	8C20324DC	125/-55	0	1000	78	0



FN49	AU	113211	R0B	8C20324DC	125/-55	0	500	75	0
FN49ABAAAL	AU	113211	R1A	CY8CTMA300E-49FNXIT	125/-55	0	500	79	0
FN49ABAAAL	AU	113211	R1AB	CY8CTMA300E-49FNXIT	125/-55	0	500	75	0
FN49	AU	113211	R3	CY8CTMA340-FN1-09	125/-55	0	500	79	0
FN49	AU	113211	R3B	CY8CTMA340-FN1-09	125/-55	0	500	78	0
FN49ABAAAL	AU	113211	R4	CP7457KTF	125/-55	0	500	78	0
FN49ABAAAL	AU	113211	R4B	CP7457KTF	125/-55	0	500	75	0
FN49AADRCD	DT	114104	R1	CY8CTMA340-FNI-09KD	125/-55	0	1000	98	0
FN49AADRCD	DT	114104	R2	CY8CTMA340-FNI-09KD	125/-55	0	1000	89	0
FN49AADRCD	DT	114104	R3	CY8CTMA340-FNI-09KD	125/-55	0	1000	90	0
FN49ABDRCD	DT	114105	R1	CY8CTMA3405-FNI-09KD	125/-55	0	1000	89	0
FN49ABDRCD	DT	114105	R2	CY8CTMA3405-FNI-09KD	125/-55	0	1000	88	0
FN49ABDRCD	DT	114105	R3	CY8CTMA3405-FNI-09KD	125/-55	0	1000	90	0
FB131ATBCD	AU	103501	R1	CYWB0263BB-FBXIES	125/-55	0	500	82	0
FB131ATBCD	AU	103501	R2	CYWB0263BB-FBXIES	125/-55	0	500	85	0
FB131ATBCD	AU	103501	R3	CYWB0263BB-FBXIES	125/-55	0	500	85	0
FB131ATBCD	AU	103501	R3	CYWB0263BB-FBXIES	125/-55	0	1000	85	0
FB131ATBCD	AU	103501	R2	CYWB0263BB-FBXIES	125/-55	0	1000	85	0
FB131ATBCD	AU	103501	R1	CYWB0263BB-FBXIES	125/-55	0	1000	81	0
FN49BATRCD	AU	112211	R3	CY8CTMA443-49FNIES2	125/-55	0	500	80	0
FN49BATRCD	AU	112211	R1	CY8CTMA443-49FNIES2	125/-55	0	500	80	0
FN49BATRCD	AU	112211	R2	CY8CTMA443-49FNIES2	125/-55	0	500	80	0
FN49BATRCD	AU	112211	R3	CY8CTMA443-49FNIES2	125/-55	0	1000	79	0



FN49BATRC	AU	112211	R1	CY8CTMA443-49FNIES2	125/-55	0	1000	80	0
FN49BATRC	AU	112211	R2	CY8CTMA443-49FNIES2	125/-55	0	1000	80	0
FN60AATRC	AU	112212	R1	CY8CTMA443-60FNIES2	125/-55	0	500	80	0
FN60AATRC	AU	112212	R2	CY8CTMA443-60FNIES2	125/-55	0	500	80	0
FN60AATRC	AU	112212	R3	CY8CTMA443-60FNIES2	125/-55	0	500	80	0
FN60AATRC	AU	112212	R3	CY8CTMA443-60FNIES2	125/-55	0	1000	80	0
FN60AATRC	AU	112212	R1	CY8CTMA443-60FNIES2	125/-55	0	1000	80	0
FN49	DT	113102	R3	CY8CTMA340-FNI-09	125/-55	0	500	87	0
FN49	DT	113102	R2	CY8CTMA340-FNI-09	125/-55	0	500	87	0
FN49	DT	113102	R1	CY8CTMA340-FNI-09	125/-55	0	1000	88	0
FN49	DT	113102	R2	CY8CTMA340-FNI-09	125/-55	0	1000	87	0
FN49	DT	113102	R1	CY8CTMA340-FNI-09	125/-55	0	500	88	0
FN49	DT	113102	R3	CY8CTMA340-FNI-09	125/-55	0	1000	85	0
FN30BBTRFP	AU	114003	R1	CY8C20767-24FDXCES	125/-55	0	500	76	0
FN49	AU	114103	R1	CY8CTMA340-FN1-09	125/-55	0	500	79	0
FN49ABAAAL	AU	114103	R2A	CP7457KTF	125/-55	0	500	78	0
FN49	AU	114103	R1	CY8CTMA340-FN1-09	125/-55	0	500	78	0
FN49ABAAAL	AU	114103	R2A	CP7457KTF	125/-55	0	500	75	0
FN49ABAAAL	AU	MR112078	R1	CG7411AMT	125/-55	0	1000	25	0
FN49ABAAAL	AU	MR112078	R1	CG7411AMT	125/-55	0	500	29	0
FN81AGAN	AU	MR113060	R1	CYWB0124ABX-FDXIT	125/-55	0	500	30	0
FN81AGAN	AU	MR113060	R1	CYWB0124ABX-FDXIT	125/-55	0	1000	30	0
FN49ABAAAL	AU	MR113068	R1	CY8CTMA340-FNI-11T	125/-55	0	500	30	0



FN49ACAAAL	GQ	MR113072	R1	CY8CTMA340-FNI-09T	125/-55	0	500	25	0
FN81AGAN	AU	MR114061	R1	CYWB0124ABX-FDXI	125/-55	0	1000	30	0
FN81AGAN	AU	MR114061	R1	CYWB0124ABX-FDXI	125/-55	0	500	30	0
FN49BADRC D	DT	120807	R1	CY8CTMA443-49FNIES2	125/-55	0	1000	79	0
FN49BADRC D	DT	120807	R2	CY8CTMA443-49FNIES2	125/-55	0	1000	80	0
FN49BADRC D	DT	120807	R3	CY8CTMA443-49FNIES2	125/-55	0	1000	79	0
FN60AADRC D	DT	120808	R1	CY8CTMA443-60FNIES2	125/-55	0	500	77	0
FN60AADRC D	DT	120808	R1	CY8CTMA443-60FNIES2	125/-55	0	1000	76	0
FN60AADRC D	DT	120808	R2	CY8CTMA443-60FNIES2	125/-55	0	500	78	0
FN60AADRC D	DT	120808	R2	CY8CTMA443-60FNIES2	125/-55	0	1000	76	0
FN60AADRC D	DT	120808	R3	CY8CTMA443-60FNIES2	125/-55	0	500	79	0
FN60AADRC D	DT	120808	R3	CY8CTMA443-60FNIES2	125/-55	0	1000	79	0

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

65 records

Sum 4642 0

PBGA (Cavity/Heat Sink)

BL256L2GE	G	MR111039	R2	CYP15G0401DXB-BGC	150/-65	0	500	80	0
BL256L2GE	G	MR111039	R2A	CYP15G0401DXB-BGC	150/-65	0	500	75	0
BL256L2GE	G	MR111039	R3	CYP15G0401DXB-BGC	150/-65	0	500	78	0
BL256L2GE	G	MR111039	R3A	CYP15G0401DXB-BGC	150/-65	0	500	75	0
BL256L2GE	G	MR111039	R2	CYP15G0401DXB-BGC	150/-65	0	1000	79	0
BL256L2GE	G	MR111039	R3	CYP15G0401DXB-BGC	150/-65	0	1000	77	0

Summary for Package Family: PBGA (Cavity/Heat Sink)

6 records

Sum 464 0



PBGA (Cavity/Heat Sink, Pb-free)

BJ256L2GL	G	113003	R1	CYP15G0401DXB-BGXC	150/-65	0	500	77	0
BJ256L2GL	G	113003	R1	CYP15G0401DXB-BGXC	150/-65	0	1000	77	0
BJ256L2GL	G	113003	R2	CYP15G0401DXB-BGXC	150/-65	0	500	77	0
BJ256L2GL	G	113003	R2	CYP15G0401DXB-BGXC	150/-65	0	1000	77	0
BJ256L2GL	G	113003	R3	CYP15G0401DXB-BGXC	150/-65	0	500	77	0
BJ256L2GL	G	113003	R3	CYP15G0401DXB-BGXC	150/-65	0	1000	77	0
BJ256L2GL	G	MR112057	R1	CYV15G0104TRB-BGXC	150/-65	0	500	30	0
BJ256L2GL	G	MR112057	R1	CYV15G0104TRB-BGXC	150/-65	0	1000	30	0
BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	150/-65	0	500	30	0
BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	150/-65	0	1000	30	0

**Summary for Package Family: PBGA
(Cavity/Heat Sink, Pb-free)**

Sum

10 records 582 0

PDIP (Pb-Free)

PZ243AAAGN	X	MR113012	R1	CY7C63743C-PXC	150/-65	0	500	30	0
PZ243AAAGN	X	MR113012	R1	CY7C63743C-PXC	150/-65	0	1000	30	0
PZ183DPDGN	RA	MR112048	R1	CY7C63723C-PXC	150/-65	0	1000	30	0
PZ183DPDGN	RA	MR113011	R1	CY7C63723C-PXC	150/-65	0	500	30	0
PZ183DPDGN	RA	MR113011	R1	CY7C63723C-PXC	150/-65	0	1000	30	0
PZ183DPBGN	RA	MR113087	R1	CS6632AF	150/-65	0	500	30	0
PZ183DPBGN	RA	MR113087	R1	CS6632AF	150/-65	0	1000	30	0



PZ183EAAGN	X	MR114021	R1	CY7C63723C-PXC	150/-65	0	500	30	0
PZ183EAAGN	X	MR114021	R1	CY7C63723C-PXC	150/-65	0	1000	29	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	150/-65	0	500	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	150/-65	0	1000	30	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	150/-65	0	500	30	0
PZ283ACAGL	X	RR112018	R1	CY7C199CN-15PXC	150/-65	0	1000	7	0
PZ283ACAGL	X	RR114001	R1	CY7C199CN-15PXC	150/-65	0	500	84	0
PZ283ACAGL	X	RR114001	R1	CY7C199CN-15PXC	150/-65	0	1000	84	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	150/-65	0	1000	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	150/-65	0	500	30	0
PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	150/-65	0	500	30	0

Summary for Package Family: PDIP (Pb-Free)

18 records

Sum

624 0

PLCC (Pb-Free)

JZ84SBGAN	M	111501	R1	CY7C024-55JXC	150/-65	0	1000	77	0
JZ84SBGAN	M	111501	R2	CY7C024-55JXC	150/-65	0	1000	77	0
JZ44SDGAN	M	111501	R3	CY37064P44-125JXC	150/-65	0	1000	80	0
JZ84SBGAN	M	111501	R4	CY7C024-55JXC	150/-65	0	1000	77	0
JZ32RBGAN	M	MR113005	R1	CY7B991V-5JXC	150/-65	0	500	30	0
JZ32RBGAN	M	MR113005	R1	CY7B991V-5JXC	150/-65	0	1000	30	0
JZ52SGGAAN	M	113405	R1	CY7C136E-55JXC	150/-65	0	500	79	0
JZ52SGGAAN	M	113405	R1	CY7C136E-55JXC	150/-65	0	758	79	3
JZ52SGGAAN	M	113405	R2	CY7C136E-55JXC	150/-65	0	500	78	0

CAR#
201140020 Cut Wedge



JZ52SGGAAN	M	113405	R2	CY7C136E-55JXC	150/-65	0	758	79	8
JZ68SDAALL	M	113604	R3	CY7C144E-55JXC	125/-55	0	500	77	0
JZ68SDAALL	M	113604	R3	CY7C144E-55JXC	125/-55	0	1000	77	0
JZ52SGGAAN	M	113405	R1	CY7C136E-55JXC	150/-65	0	1000	73	0
JZ52SGGAAN	M	113405	R2	CY7C136E-55JXC	150/-65	0	1000	62	0
JZ52SFGAN	M	MR114045	R1	CY7C136-25JXC	150/-65	0	500	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	150/-65	0	1000	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	150/-65	0	500	30	0

CAR#
201140020 Cut Wedge

Summary for Package Family: PLCC (Pb-Free)

17 records

Sum

1065 11

PQFP (Pb-free)

NZ52DXGAN	G	MR112060	R1	CY7C136-55NXCT	150/-65	0	1000	30	0
NZ52DXGAN	G	MR112060	R1	CY7C136-55NXCT	150/-65	0	500	30	0
NZ52EAALL	M	113405	R3	CY7C136E-55JXC	150/-65	0	500	79	0
NZ52EAALL	M	113405	R3	CY7C136E-55JXC	150/-65	0	1000	79	0
NZ52EAALL	M	113405	R4	CY7C136E-55JXC	150/-65	0	500	76	0
NZ52EAALL	M	113405	R4	CY7C136E-55JXC	150/-65	0	1000	76	0
NZ52DXGAN	G	MR113056	R1	CY7C136A-55NXI	150/-65	0	500	30	0
NZ52DXGAN	G	MR113056	R1	CY7C136A-55NXI	150/-65	0	1000	30	0
NZ52DXGAN	G	MR114028	R1	CY7C136A-55NXI	150/-65	0	500	30	0
NZ52DXGAN	G	MR114028	R1	CY7C136A-55NXI	150/-65	0	1000	30	0
NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	150/-65	0	500	30	0
NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	150/-65	0	1000	30	0



NZ52DXGAN	G	MR122023	R1	CY7C131-55NXC	150/-65	0	500	28	0
Summary for Package Family: PQFP (Pb-free)			13	records				578	0
Sum								578	0
QFN (COL, 0.6mm, Saw Type, Pb-free)									
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	150/-65	0	500	80	0
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	150/-65	0	1000	80	0
LG16AQAAAL	G	112603	R2	CY8C20236A-24LKXI	150/-65	0	500	80	0
LG16AQAAAL	G	112603	R2	CY8C20236A-24LKXI	150/-65	0	1000	80	0
LG16AQAAAL	G	112603	R3	CY8C20236A-24LKXI	150/-65	0	500	80	0
LG16AQAAAL	G	112603	R3	CY8C20236A-24LKXI	150/-65	0	1000	80	0
LG16ABAALL	L	113302	R1	CY8C20236A-24LKXA	150/-65	0	500	80	0
LG16ABAALL	L	113302	R1	CY8C20236A-24LKXA	150/-65	0	1000	80	0
LG16ABAALL	L	113302	R2	CY8C20236A-24LKXA	150/-65	0	500	80	0
LG16ABAALL	L	113302	R2	CY8C20236A-24LKXA	150/-65	0	1000	80	0
LG16ABAALL	L	113302	R3	CY8C20236A-24LKXA	150/-65	0	500	80	0
LG16ABAALL	L	113302	R3	CY8C20236A-24LKXA	150/-65	0	1000	80	0
LG16AAAAL	MB	MR112021	R1	CY8C20236A-24LKXIT	150/-65	0	1000	30	0
LG16AQAAAL	G	114903	R1	CY8C20236A-24LKXI	150/-65	0	500	120	0
LG16AQAAAL	G	114903	R2	CY8C20236A-24LKXI	150/-65	0	500	119	0
LG16AQAAAL	G	114903	R3	CY8C20236A-24LKXI	150/-65	0	500	120	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150/-65	0	500	120	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150/-65	0	1000	110	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150/-65	0	500	120	0



LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150/-65	0	1000	109	0
LG16ABAALL	L	MR112052	R1	CP7194FT	150/-65	0	1000	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	150/-65	0	500	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	150/-65	0	1000	30	0
LG16ABAALL	L	MR113029	R1	CS7412AT	150/-65	0	500	30	0
LG16ABAALL	L	MR113029	R1	CS7412AT	150/-65	0	1000	30	0
LG16AAAAL	MB	NR102001	R8	CS7148AT	150/-65	0	1000	56	0
LG16AAAAL	MB	RR114002	R1	CY8C20110-LDX2I	150/-65	0	200	100	0
LG16AAAAL	MB	RR114002	R1	CY8C20110-LDX2I	150/-65	0	500	100	0
LG16AAAAL	MB	RR114002	R2	CY8C20110-LDX2IT	150/-65	0	200	100	0
LG16AAAAL	MB	RR114002	R2	CY8C20110-LDX2IT	150/-65	0	500	100	0
LG16AAAAL	MB	RR114002	R3	CY8C20110-LDX2IT	150/-65	0	200	125	0
LG16AAAAL	MB	RR114002	R3	CY8C20110-LDX2IT	150/-65	0	500	125	0
LG16AAAAL	MB	RR121001	R1	CG7216AM	150/-65	0	500	80	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150/-65	0	1500	100	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150/-65	0	1500	99	0
LG16ABAALL	L	MR114030	R1	CG7471AMT	150/-65	0	500	30	0
LG16ABAALL	L	MR114032	R1	CY8C20236A-24LKXIT	150/-65	0	500	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	150/-65	0	500	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	150/-65	0	1000	30	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	150/-65	0	500	89	0



LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	150/-65	0	1000	89	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R4	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R5	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R5	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R6	CY8C20236A-24LKXI	150/-65	0	500	89	0
LG16AQAAAL	G	NR121001	R6	CY8C20236A-24LKXI	150/-65	0	1000	89	0
LG16AQAAAL	G	NR121001	R7	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R8	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R9	CY8C20236A-24LKXI	150/-65	0	500	90	0

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

53 records

Sum 4319 0

QFN (Punch Type, Pb-Free)

LY40CGAGR	L	MR112018	R1	CYRF69213-40LFXC	150/-65	0	1000	30	0
LY24BGAGL	L	MR112059	R1	CY8C21323-24LFXIT	150/-65	0	500	30	0
LY24BGAGL	L	MR112059	R1	CY8C21323-24LFXIT	150/-65	0	1000	30	0
LY40CGAGR	L	MR113023	R1	CYRF69213-40LFXC	150/-65	0	500	30	0
LY24BGAGL	L	MR113040	R1	CY8C21323-24LFXIT	150/-65	0	500	30	0
LY56AGAGL	L	MR114036	R1	CY7C65630-56LFXA	150/-65	0	1000	30	0
LY56AGAGL	L	MR114036	R1	CY7C65630-56LFXA	150/-65	0	500	30	0
LY56DGAGL	L	MR114035	R1	CY8CTMG120-56LFXA	150/-65	0	500	28	0



LY56DGAGL	L	MR114035	R1	CY8CTMG120-56LFXA	150/-65	0	1000	27	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	150/-65	0	1000	29	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	150/-65	0	500	30	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	150/-65	0	500	24	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	150/-65	0	1000	23	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	150/-65	0	500	29	0

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

**14 records
400 0**

QFN (Saw Type, Pb-Free)

LQ56AQAAAL	G	112105	R1	CY8C24794-24LQXI	150/-65	0	1000	80	0
LQ56AQAAAL	G	112105	R2	CY8C24794-24LQXI	150/-65	0	1000	80	0
LQ48AQAAAL	G	112105	R3	CY8CTMA301E5-48LQXI	150/-65	0	1000	79	0
LT40BQAAAL	G	112106	R1	CYRF69103-40LTXCES	150/-65	0	1000	79	0
LT48EQAAAL	G	112106	R2	CYWUSB6953-48LTXC	150/-65	0	1000	79	0
LT40BQAAAL	G	112106	R3	CYRF69103-40LTXCES	150/-65	0	1000	80	0
LT48DQAAAL	G	112107	R3	CY8C3866LTI-068	150/-65	0	1000	80	0
LT88AAAAAL	RA	113002	R1A	CY8CTMA884LTI-13ES	150/-65	0	200	77	0
LT88AAAAAL	RA	113002	R1A	CY8CTMA884LTI-13ES	150/-65	0	500	75	0
LT88AAAAAL	RA	113002	R1A	CY8CTMA884LTI-13ES	150/-65	0	1000	72	0
LT88AAAAAL	RA	113002	R1B	CY8CTMA884LTI-13ES	150/-65	0	500	77	0
LT88AAAAAL	RA	113002	R1B	CY8CTMA884LTI-13ES	150/-65	0	1000	76	0
LT88AAAAAL	RA	113002	R1C	CY8CTMA884LTI-13ES	150/-65	0	200	77	0
LT88AAAAAL	RA	113002	R1C	CY8CTMA884LTI-13ES	150/-65	0	500	74	0



LT88AAAAAL	RA	113002	R2	CY8CTMA884LTI-13ES	150/-65	0	500	77	0
LT88AAAAAL	RA	113002	R2	CY8CTMA884LTI-13ES	150/-65	0	1000	76	0
LT88AAAAAL	RA	113002	R2A	CY8CTMA884LTI-13ES	150/-65	0	200	77	0
LT88AAAAAL	RA	113002	R2A	CY8CTMA884LTI-13ES	150/-65	0	500	76	0
LT88AAAAAL	RA	113002	R3A	CY8CTMA884LTI-13ES	150/-65	0	200	77	0
LT88AAAAAL	RA	113002	R3A	CY8CTMA884LTI-13ES	150/-65	0	500	74	0
LT88ABAAAL	LG	113802	R1	CY8CTMA884LTI-13ES	150/-65	0	200	77	0
LT88ABAAAL	LG	113802	R1	CY8CTMA884LTI-13ES	150/-65	0	500	75	0
LT88ABAAAL	L	113802	R2	CY8CTMA884LTI-13ES	150/-65	0	200	76	0
LT88ABAAAL	L	113802	R2	CY8CTMA884LTI-13ES	150/-65	0	500	74	0
LT88ABAAAL	L	113802	R3	CY8CTMA884LTI-13ES	150/-65	0	200	77	0
LT88ABAAAL	L	113802	R3	CY8CTMA884LTI-13ES	150/-65	0	500	75	0
LQ32EPDAGL	RA	MR112023	R1	CY8C20446A-24LQXIT	150/-65	0	1000	30	0
LT56BDAAGL	AE	MR112027	R1	CY7C64215-56LTXC	150/-65	0	1000	30	0
LQ48AAAAAL	R	MR113039	R1	CY8CTMA340-48LQI-01	150/-65	0	500	30	0
LQ48AAAAAL	R	MR113039	R1	CY8CTMA340-48LQI-01	150/-65	0	1000	30	0
LQ32DAGLL	CA	MR112017	R1	CY8C20446A-24LQXIT	150/-65	0	1000	30	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	150/-65	0	500	29	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	150/-65	0	1000	29	0
LT68ADAAGL	RA	100401	R1	CY8C3866LTI-030ES2	150/-65	0	1000	2	0
LT68ADAAGL	RA	100401	R2	CY8C3866LTI-030ES2	150/-65	0	1000	10	0
LT88AAAAAL	RA	113002	R1C	CY8CTMA884LTI-13ES	150/-65	0	1000	72	0
LT88AAAAAL	RA	113002	R3	CY8CTMA884LTI-13ES	150/-65	0	500	76	0



LT88AAAAAL	RA	113002	R3	CY8CTMA884LTI-13ES	150/-65	0	1000	65	0
LQ48AAAAAL	RA	113211	R1	CY8CTMA340-48LQI-09	150/-65	0	500	80	0
LQ48AAAAAL	RA	113211	R1	CY8CTMA340-48LQI-09	150/-65	0	500	80	0
LQ48AAAAAL	RA	113211	R1	CY8CTMA340-48LQI-09	150/-65	0	1000	79	0
LQ48AAAAAL	RA	113211	R1B	CY8CTMA340-48LQI-09	150/-65	0	500	78	0
LQ48AAAAGL	RA	113905	R1	CY8CTMA443-48LQIES2	150/-65	0	500	83	0
LQ48AAAAGL	RA	113905	R1	CY8CTMA443-48LQIES2	150/-65	0	1000	83	0
LQ48AQAAAL	G	113905	R3	CY8CTMA443-48LQIES	150/-65	0	500	79	0
LQ48AQAAAL	G	113905	R3	CY8CTMA443-48LQIES	150/-65	0	1000	79	0
LQ48AQAAAL	G	113905	R4	CY8CTMA443-48LQIES	150/-65	0	500	80	0
LQ48AQAAAL	G	113905	R4	CY8CTMA443-48LQIES	150/-65	0	1000	80	0
LQ48AQAAAL	G	113905	R5	CY8CTMA443-48LQIES	150/-65	0	500	80	0
LQ48AQAAAL	G	113905	R5	CY8CTMA443-48LQIES	150/-65	0	1000	80	0
LQ36ABAAAL	RA	114301	R1A	CY8CTMA300E-36LQXI	150/-65	0	500	80	0
LQ36ABAAAL	RA	114301	R2A	CY8CTMA300E-36LQXI	150/-65	0	500	80	0
LQ36ABAAAL	RA	114301	R3A	CY8CTMA300E-36LQXI	150/-65	0	500	80	0
LQ48AAAAGL	RA	112207	R1	CY8CTMA443-48LQIES	150/-65	0	500	76	0
LQ48AAAAGL	RA	112207	R1	CY8CTMA443-48LQIES	150/-65	0	1000	76	0
LQ48AAAAGL	RA	112207	R2	CY8CTMA443-48LQIES	150/-65	0	500	77	0
LQ48AAAAGL	RA	112207	R2	CY8CTMA443-48LQIES	150/-65	0	1000	77	0
LQ48AAAAGL	RA	112207	R3	CY8CTMA443-48LQIES	150/-65	0	500	76	0
LQ48AAAAGL	RA	112207	R3	CY8CTMA443-48LQIES	150/-65	0	1000	20	0
LT88AAAAAL	RA	113002	R2A	CY8CTMA884LTI-13ES	150/-65	0	1000	73	0



LT88AAAAAL	RA	113002	R3A-Split 1	CY8CTMA884LTI-13ES	150/-65	0	500	1	0
LT88AAAAAL	RA	113002	R3A	CY8CTMA884LTI-13ES	150/-65	0	1000	69	0
LT88AAAAAL	RA	113002	R3A-Split 1	CY8CTMA884LTI-13ES	150/-65	0	1000 split 1	1	0
LT68YAAAAAL	G	113603	R1	CY8C3865LTI-014	150/-65	0	500	77	0
LT68YAAAAAL	G	113603	R2	CY8C3865LTI-014	150/-65	0	500	77	0
LT68YAAAAAL	G	113603	R3	CY8C3865LTI-014	150/-65	0	500	80	0
LT88AAAAAL	RA	113804	R1	CY8CTMA884LTI-13ES	150/-65	0	1000	78	0
LT88AAAAAL	RA	113804	R1	CY8CTMA884LTI-13ES	150/-65	0	500	79	0
LT88AAAAAL	RA	113804	R2	CY8CTMA884LTI-13ES	150/-65	0	500	79	0
LT88AAAAAL	RA	113804	R2	CY8CTMA884LTI-13ES	150/-65	0	1000	78	0
LT88AAAAAL	RA	113804	R3	CY8CTMA884LTI-13ES	150/-65	0	500	79	0
LT88AAAAAL	RA	113804	R3	CY8CTMA884LTI-13ES	150/-65	0	1000	78	0
LT68ADAAGL	RA	114110	R1A	CY8C5568LTI-114	150/-65	0	500	80	0
LT68ADAAGL	RA	114110	R1A	CY8C5568LTI-114	150/-65	0	1000	74	0
LT68ADAAGL	RA	114110	R2A	CY8C5568LTI-114	150/-65	0	274	77	0
LT68ADAAGL	RA	114110	R2A	CY8C5568LTI-114	150/-65	0	500	77	0
LT68ADAAGL	RA	114110	R3	CY8C5568LTI-114	150/-65	0	500	84	0
LQ48AQAAAL	G	114101	R1	CY8CTMA443-48LQIES	150/-65	0	500	79	0
LQ48AQAAAL	G	114101	R2	CY8CTMA443-48LQIES	150/-65	0	500	80	0
LQ48AQAAAL	G	114101	R3	CY8CTMA443-48LQIES	150/-65	0	500	80	0
LQ24AQAAAL	G	114401	R1	CY7C63803-LQXC	150/-65	0	500	220	0
LQ24AQAAAL	G	114401	R2	CY8C20324-12LQXI	150/-65	0	500	220	0
LQ32QAAAL	G	114401	R3	CY8CTMG240-LQI-01	150/-65	0	500	220	0



LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150/-65	0	1000	208	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150/-65	0	500	220	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150/-65	0	500	220	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150/-65	0	1000	209	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150/-65	0	500	220	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150/-65	0	1000	210	0
LQ56AQAAAL	G	114404	R1	CY8C24794-24LQXI	150/-65	0	500	220	0
LQ56AQAAAL	G	114404	R2	CY8C24794-24LQXI	150/-65	0	500	220	0
LQ56AQAAAL	G	114404	R3	CY8C24794-24LQXI	150/-65	0	500	220	0
LT68ADAAGL	RA	114407	R1	CY8C5568LTI-114	150/-65	0	500	77	0
LT68ADAAGL	RA	114407	R2	CY8C5568LTI-114	150/-65	0	500	80	0
LT68ADAAGL	RA	114407	R2	CY8C5568LTI-114	150/-65	0	1000	74	0
LT68ADAAGL	RA	114407	R3	CY8C5568LTI-114	150/-65	0	500	84	0
LT40ABAAAL	G	114904	R1	CYRF6986-40LTXC	150/-65	0	500	120	0
LT40ABAAAL	G	114904	R2	CYRF6986-40LTXC	150/-65	0	500	126	0
LT40ABAAAL	G	114904	R3	CYRF6986-40LTXC	150/-65	0	500	125	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150/-65	0	500	120	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150/-65	0	1000	120	0
LT48CQAAAL	G	114905	R2	CYWUSB6934-48LTXC	150/-65	0	500	120	0
LT48DQAAAL	G	114905	R3	CY8C3866LTI-068	150/-65	0	500	120	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150/-65	0	500	120	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150/-65	0	1000	108	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150/-65	0	500	120	0



LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150/-65	0	1000	108	0
LT68YAAAAL	G	114906	R3	CY8C3866LTI-030	150/-65	0	500	120	0
LT32BBAAAL	G	114907	R1	CY8C21434-24LTXI	150/-65	0	500	120	0
LT32BBAAAL	G	114907	R2	CY22391LTXC-06	150/-65	0	500	126	0
LT32BBAAAL	G	114907	R3	CY7C63833-LTXC	150/-65	0	500	120	0
LQ48AAAAGL	RA	115106	R1	CY8CTMA443-48LQIES2	150/-65	0	500	80	0
LQ48AAAAGL	RA	115106	R1	CY8CTMA443-48LQIES2	150/-65	0	1000	78	0
LQ48AQAAAL	G	115108	R1	CY8CTMA443-48LQIES2	150/-65	0	500	77	0
LQ48AQAAAL	G	115108	R1	CY8CTMA443-48LQIES2	150/-65	0	1000	77	0
LQ44AAAAALN	G	120104	R1	CY8CTMA443-44LQIES2	150/-65	0	500	80	0
LQ44AAAAALN	G	120407	R1	CY8CTMA443-44LQIES	150/-65	0	500	77	0
LQ44AAAAALN	G	120407	R1	CY8CTMA443-44LQIES	150/-65	0	1000	30	0
LQ44AAAAALN	G	120407	R2	CY8CTMA443-44LQIES	150/-65	0	500	62	0
LQ44AAAAALN	G	120407	R2	CY8CTMA443-44LQIES	150/-65	0	1000	30	0
LQ44AAAAALN	G	120407	R2A	CY8CTMA443-44LQIES	150/-65	0	500	15	0
LQ44AAAAALN	G	120407	R2A	CY8CTMA443-44LQIES	150/-65	0	1000	15	0
LQ44AAAAALN	G	120407	R2A	CY8CTMA443-44LQIES	150/-65	0	500	15	0
LQ44AAAAALN	G	120407	R3	CY8CTMA443-44LQIES	150/-65	0	500	77	0
LQ44AAAAALN	G	120407	R3	CY8CTMA443-44LQIES	150/-65	0	1000	30	0
LT68ADAAGL	RA	MR112002	R1	CY8C3446LTI-085	150/-65	0	1000	7	0
LQ32ACBAGL	MB	MR112012	R1	CP6745DMT	150/-65	0	1000	30	0
LQ24ADAAGL	CA	MR112013	R1	CY8CTST200A-24LQXIT	150/-65	0	1000	30	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150/-65	0	500	30	0



LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150/-65	0	1000	30	0
LT32BAAAGL	CA	MR113021	R1	CY8C21434-24LTXIT	150/-65	0	500	30	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	150/-65	0	500	29	0
LQ32DAGLL	CA	MR113038	R1	CY8C20446A-24LQXIT	150/-65	0	1000	29	0
LQ48AAAAAL	RA	MR113059	R1	CG7415AF	150/-65	0	500	30	0
LQ36AAAAAL	L	MR113075	R1	CY8CTMA375-LQI-01	150/-65	0	500	80	0
LQ48AAAAAL	RA	MR113075	R2	CY8CTMA340-48LQI-01T	150/-65	0	500	79	0
LQ36AAAAAN	MB	MR113075	R3	CY8CTMA300E-36LQXI	150/-65	0	500	80	0
LQ48AAAAAL	RA	MR113075	R5	CY8CTMA340-48LQI-01T	150/-65	0	1000	76	0
LQ36AAAAAL	L	MR113075	R1	CY8CTMA375-LQI-01	150/-65	0	1000	80	0
LQ36AAAAAN	MB	MR113075	R3	CY8CTMA300E-36LQXI	150/-65	0	1000	80	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	150/-65	0	500	30	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	150/-65	0	1000	30	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	150/-65	0	500	30	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	150/-65	0	1000	30	0
LQ48AQAAAL	G	MR114025	R1	CY8CTMA340-48LQI-01T	150/-65	0	500	30	0
LQ48AQAAAL	G	MR114025	R1	CY8CTMA340-48LQI-01T	150/-65	0	1000	30	0
LQ56ABAAAL	MB	NR113001	R1	CY8C24794-24LQXIT	150/-65	0	500	30	0
LQ56ABAAAL	MB	NR113001	R1	CY8C24794-24LQXIT	150/-65	0	1000	30	0
LQ56ABAAAL	MB	NR113001	R2	CY8C24794-24LQXIT	150/-65	0	500	30	0
LQ56ABAAAL	MB	NR113001	R2	CY8C24794-24LQXIT	150/-65	0	1000	30	0
LQ56ABAAAL	MB	NR113001	R3	CY8C24794-24LQXIT	150/-65	0	500	30	0
LQ56ABAAAL	MB	NR113001	R3	CY8C24794-24LQXIT	150/-65	0	1000	30	0



LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	150/-65	0	500	25	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	150/-65	0	1000	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	150/-65	0	500	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	150/-65	0	1000	25	0
LT48AQAAAL	G	112107	R1	CY8CLED16-48LTXI	150/-65	0	1000	80	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150/-65	0	1500	198	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150/-65	0	2000	198	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150/-65	0	1500	200	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150/-65	0	2000	200	0
LQ44AAAAALN	G	120104	R1	CY8CTMA443-44LQIES2	150/-65	0	1000	80	0
LT32BAABGL	RA	120204	R1	CG7032AA	150/-65	0	1500	97	0
LT32BAABGL	RA	120204	R1	CG7032AA	150/-65	0	2000	97	0
LT32BABCGL	RA	120204	R2	CS7224AA	150/-65	0	1500	97	0
LT32BABCGL	RA	120204	R2	CS7224AA	150/-65	0	2000	97	0
LT32BABCGL	RA	120204	R3	CS7224AA	150/-65	0	1500	97	0
LT32BABCGL	RA	120204	R3	CS7224AA	150/-65	0	2000	97	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150/-65	0	1500	94	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150/-65	0	2000	94	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150/-65	0	1500	94	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150/-65	0	2000	94	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150/-65	0	1500	92	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150/-65	0	2000	92	0
LT68ADAAGL	RA	120206	R1	CY8C3865LTI-014	150/-65	0	1000	99	0



LT68ADAAGL	RA	120206	R1	CY8C3865LTI-014	150/-65	0	1500	84	0
LT68ADAAGL	RA	120206	R2	CY8C3865LTI-014	150/-65	0	1000	99	0
LT68ADAAGL	RA	120206	R2	CY8C3865LTI-014	150/-65	0	1500	99	0
LT68ADAAGL	RA	120206	R3	CY8C3865LTI-014	150/-65	0	1000	99	0
LT68ADAAGL	RA	120206	R3	CY8C3865LTI-014	150/-65	0	1500	99	0
LQ32EPDAGL	RA	120207	R1	CY8CTMG200-32LQXI	150/-65	0	1500	88	0
LQ32EPDAGL	RA	120207	R1	CY8CTMG200-32LQXI	150/-65	0	2000	83	0
LQ32EPDAGL	RA	120207	R2	CY8CTMG200-32LQXI	150/-65	0	1500	88	0
LQ32EPDAGL	RA	120207	R2	CY8CTMG200-32LQXI	150/-65	0	2000	88	0
LQ32EPDAGL	RA	120207	R3	CY8CTMG200-32LQXI	150/-65	0	1500	89	0
LQ32EPDAGL	RA	120207	R3	CY8CTMG200-32LQXI	150/-65	0	2000	89	0
LQ48AEAAAL	RA	121105	R1	CY8CTMA443-48LQI	150/-65	0	500	80	0
LQ48AEAAAL	RA	121105	R1	CY8CTMA443-48LQI	150/-65	0	1000	80	0
LQ48AEAAAL	RA	121105	R2	CY8CTMA443-48LQI	150/-65	0	500	80	0
LQ48AEAAAL	RA	121105	R2	CY8CTMA443-48LQI	150/-65	0	1000	80	0
LQ48AEAAAL	RA	121105	R3	CY8CTMA443-48LQI	150/-65	0	500	80	0
LT32BAAAGL	CA	MR113021	R1	CY8C21434-24LTXIT	150/-65	0	1000	30	0
LT56BDAAGL	AE	MR113050	R1	CG7158DMT	150/-65	0	1000	28	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	150/-65	0	500	29	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	150/-65	0	1000	29	0
LT48ABBAAL	MB	MR114014	R1	CP7408AT	150/-65	0	1000	30	0
LT48AQAAAL	G	MR114071	R1	CY8C20636A-24LTXI	150/-65	0	500	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	150/-65	0	1000	30	0



LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	150/-65	0	500	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	150/-65	0	500	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	150/-65	0	1000	30	0
LT56BDAAGL	AE	MR121038	R1	CG7243AMT	150/-65	0	500	30	0
LT32BAABGL	RA	MR122002	R1	CY8C21434-24LTXIT	150/-65	0	500	30	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	150/-65	0	500	30	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	150/-65	0	500	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	150/-65	0	1000	25	0
LT40ACAAGL	AE	RR122001	R1	CYRF6936-40LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R2	CY7C65640A-LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R4	CY7C65630-56LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R5	CY7C65630-56LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R6	CY7C65630-56LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R7	CY7C65630-56LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R8	CS7275AAT	150/-65	0	50	100	0

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

213 records

Sum

0

QSOP (Pb-Free)

SQ2414ABGN	R	MR111076	R1	CY7C63743C-QXC	150/-65	0	1000	30	0
SQ2414ACGN	JT	NR113002	R1	CY7C63823-QXC	150/-65	0	1000	25	0

Summary for Package Family: QSOP (Pb-Free)

2 records

Sum

55 0

SNC (Pb-Free)



SY2831BBLN	R	MR113001	R1	CG6715AMT	150/-65	0	500	30	0
SY2831BBLN	R	MR113001	R1	CG6715AMT	150/-65	0	1000	30	0
SY2831BCLN	JT	MR114017	R1	CY62256NLL-70SNXC	150/-65	0	500	30	0
SY2831BCLN	JT	MR114017	R1	CY62256NLL-70SNXC	150/-65	0	1000	30	0

Summary for Package Family: SNC (Pb-Free)

4 records

Sum

120 0

SOIC

S0815KAGB	M	AR1112032	R1	IMIFS741BZBT	150/-65	0	1000	20	0
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Summary for Package Family: SOIC

1 records

Sum

20 0

SOIC (Pb Free)

SZ323AEGAS	M	AR1111024	R1	CY14B256LA-SZ45XIT	150/-65	0	1000	18	0
SZ815CGAAS	M	AR1115029	R1	CY2305CSXA-1HT	150/-65	0	500	20	0
SZ815CGAAS	M	AR1115029	R1	CY2305CSXA-1HT	150/-65	0	1000	20	0
SZ0815TAGN	T	AR1118024	R1	CY25402SXC-007T	150/-65	0	1000	19	0
SZ28327BGL	R	MR104070	R1	CY8C21345-24SXI	150/-65	0	1000	30	0
SZ815DAGN	M	AR1121026	R1	CY2907FX8T	150/-65	0	500	20	0
SZ815DAGN	M	AR1121026	R1	CY2907FX8T	150/-65	0	1000	20	0
SZ323ABAGS	M	MR101047	R1	CY14B101L-SZ45XC	150/-65	0	500	28	0
SZ323ABAGS	M	MR101047	R1	CY14B101L-SZ45XC	150/-65	0	1000	26	0
SZ323AEGAS	M	MR112031	R1	CY14B256LA-SZ45XIT	150/-65	0	1000	29	0
SZ24315EGN	RA	MR112032	R1	CY7C63743C-SXC	150/-65	0	1000	29	0
SZ324513N	R	MR112035	R1	CY62128BNLL-70SXET	150/-65	0	500	30	0



SZ324513N	R	MR112035	R1	CY62128BNLL-70SXET	150/-65	0	1000	29	0
SZ815PAEGN	RA	MR114001	R1	CY2305SXI-1H	150/-65	0	500	30	0
SZ815PAEGN	RA	MR114001	R1	CY2305SXI-1H	150/-65	0	1000	30	0
SZ0815TAGN	T	111403	R1	CY25402SXC-007	150/-65	0	500	80	0
SZ0815TAGN	T	111403	R1	CY25402SXC-007	150/-65	0	1000	80	0
SZ0815TAGN	T	111403	R2	CY25402SXC-007	150/-65	0	500	80	0
SZ0815TAGN	T	111403	R2	CY25402SXC-007	150/-65	0	1000	80	0
SZ0815TAGN	T	111403	R3	CY25402SXC-007	150/-65	0	500	80	0
SZ0815TAGN	T	111403	R3	CY25402SXC-007	150/-65	0	1000	80	0
SZ28	JT	113907	R1	8C294665A	150/-65	0	500	77	0
SZ28327BGL	JT	113907	R2	8C294665A	150/-65	0	500	77	0
SZ28	JT	113907	R3	8C294665A	150/-65	0	500	77	0
SZ324513AN	JT	115206	R1	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	115206	R1	CY62128BNLL-70SXE	150/-65	0	1000	80	0
SZ324513AN	JT	115206	R2	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	115206	R2	CY62128BNLL-70SXE	150/-65	0	1000	80	0
SZ324513AN	JT	115206	R3	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	115206	R3	CY62128BNLL-70SXE	150/-65	0	1000	80	0
SZ324513AN	JT	120110	R1	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	120110	R2	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	120110	R3	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ24315EGN	RA	AR1119008	R1	CY7C63743C-SXC	150/-65	0	500	17	0
SZ24315EGN	RA	AR1119008	R1	CY7C63743C-SXC	150/-65	0	1000	17	0



SZ815CGAAS	M	MR112007	R1	CY2305CSXA-1HT	150/-65	0	500	30	0
SZ815CGAAS	M	MR112007	R1	CY2305CSXA-1HT	150/-65	0	1000	29	0
SZ1615FAL	T	MR112065	R1	CY7C63803-SXC	150/-65	0	500	30	0
SZ1615FAL	T	MR112065	R1	CY7C63803-SXC	150/-65	0	1000	30	0
SZ28327BGL	R	MR112066	R1	CY8C27443-24SXI	150/-65	0	500	30	0
SZ28327BGL	R	MR112066	R1	CY8C27443-24SXI	150/-65	0	1000	30	0
SZ324513BN	R	MR113002	R1	CY62128BNLL-55SXI	150/-65	0	500	30	0
SZ324513BN	R	MR113002	R1	CY62128BNLL-55SXI	150/-65	0	1000	30	0
SZ1615KDGN	RA	MR113009	R1	CY2292FXC	150/-65	0	500	30	0
SZ1615KDGN	RA	MR113009	R1	CY2292FXC	150/-65	0	1000	29	0
SZ28327BGL	R	MR113017	R1	CY8C21345-24SXI	150/-65	0	500	30	0
SZ28327BGL	R	MR113017	R1	CY8C21345-24SXI	150/-65	0	1000	30	0
SZ323AEGAS	M	MR113035	R1	CY14B101LA-SZ25XIT	150/-65	0	500	30	0
SZ1615FAL	T	MR113045	R1	CY23EP09SXC-1HT	150/-65	0	500	30	0
SZ1615FAL	T	MR113045	R1	CY23EP09SXC-1HT	150/-65	0	1000	29	0
SZ1615EGN	M	MR113071	R1	CY2309SXI-1H	150/-65	0	500	29	0
SZ1615EGN	M	MR113071	R1	CY2309SXI-1H	150/-65	0	1000	29	0
SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	150/-65	0	500	30	0
SZ1615FAL	T	MR114019	R1	CY7C63801-SXC	150/-65	0	500	30	0
SZ1615FAL	T	MR114019	R1	CY7C63801-SXC	150/-65	0	1000	30	0
SZ24315EGN	RA	MR114020	R1	CY7C63743C-SXCT	150/-65	0	500	30	0
SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	150/-65	0	500	27	0
SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	150/-65	0	1000	27	0



SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150/-65	0	500	30	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	150/-65	0	500	77	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	150/-65	0	1000	77	0
SZ1615FAL	T	121409	R2	CY8C20237-24SXI	150/-65	0	500	77	0
SZ1615FAL	T	121409	R2	CY8C20237-24SXI	150/-65	0	1000	77	0
SZ1615FAL	T	121409	R3	CY8C20237-24SXI	150/-65	0	1000	77	0
SZ1615FAL	T	121409	R3	CY8C20237-24SXI	150/-65	0	500	77	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	150/-65	0	500	96	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	150/-65	0	1000	86	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	150/-65	0	1000	86	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	150/-65	0	500	96	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	150/-65	0	1000	86	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	150/-65	0	500	96	0
SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	150/-65	0	1000	30	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	150/-65	0	500	26	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	150/-65	0	1000	26	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150/-65	0	1000	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150/-65	0	1500	30	0
SZ1615DGN	M	MR121048	R1	CY8C21234-24SXI	150/-65	0	500	30	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	150/-65	0	500	22	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	150/-65	0	1000	22	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	150/-65	0	500	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	150/-65	0	500	30	0



SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	150/-65	0	1000	29	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	150/-65	0	1000	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	150/-65	0	500	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	150/-65	0	500	30	0

Summary for Package Family: SOIC (Pb Free)

85 records

Sum

3955 0

SOJ

V243GAAAGN	X	MR112050	R1	CY7C197BN-15VCT	150/-65	0	500	30	0
V243GAAAGN	X	MR112050	R1	CY7C197BN-15VCT	150/-65	0	1000	30	0

Summary for Package Family: SOJ

2 records

Sum

60 0

SOJ (Pb-Free)

VZ2439ABGS	X	AR1108023	R1	CY7C128A-20VXCT	150/-65	0	1000	20	0
VZ32314BLL	R	MR112033	R1	CY7C1009D-10VXIT	150/-65	0	500	30	0
VZ2847AAAR	OP	MR112051	R1	CY7C107D-10VXI	150/-65	0	1000	30	0
VZ444ACBLN	R	MR113049	R1	CG7109AM	150/-65	0	500	30	0
VZ444ACBLN	R	MR113049	R1	CG7109AM	150/-65	0	1000	30	0
VZ28311KLL	R	MR113064	R1	CY7C1399BN-15VXAT	150/-65	0	500	30	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	150/-65	0	500	30	0
VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	150/-65	0	500	30	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	150/-65	0	500	25	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	150/-65	0	1000	25	0
VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	150/-65	0	500	25	0



VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	150/-65	0	1000	25	0
VZ3649BBLN	JT	NR114001	R1	CY7C1049D-10VXIKJ	150/-65	0	500	25	0
VZ3649BBLN	JT	NR114001	R1	CY7C1049D-10VXIKJ	150/-65	0	1000	25	0
VZ444ADDLN	JT	NR114001	R2	CY7C1041DV33-10VXIKJ	150/-65	0	500	25	0
VZ444ADDLN	JT	NR114001	R2	CY7C1041DV33-10VXIKJ	150/-65	0	1000	25	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	150/-65	0	1000	30	0
VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	150/-65	0	1000	30	0

Summary for Package Family: SOJ (Pb-Free)

18 records

Sum

490 0

SSOP (Pb-Free)

SP483JABAL	JT	105201	R3	CY8C20566A-12PVXE	150/-65	0	1000	80	0
SP282ABBGN	RA	AR1037013	R1	CY8C21534-24PVXI	150/-65	0	1000	19	0
SP483EBBAL	R	AR1103003	R1	CY8C29666-24PVXI	150/-65	0	1000	13	0
SP483EBBAL	R	AR1108003	R1	CY8C29666-24PVXI	150/-65	0	500	19	0
SP483EBBAL	R	AR1108003	R1	CY8C29666-24PVXI	150/-65	0	1000	17	0
SP483EBBAL	R	AR1109003	R1	CY8C29666-24PVXIT	150/-65	0	500	17	0
SP483EBBAL	R	AR1109003	R1	CY8C29666-24PVXIT	150/-65	0	1000	14	0
SP483EBBAL	R	AR1116003	R1	CY8C29666-24PVXI	150/-65	0	500	17	0
SP483EBBAL	R	AR1116003	R1	CY8C29666-24PVXI	150/-65	0	1000	17	0
SP483EBBAL	R	AR1117003	R1	CY8C29666-24PVXIT	150/-65	0	500	18	0
SP483EBBAL	R	AR1117003	R1	CY8C29666-24PVXIT	150/-65	0	1000	17	0
SP2822BGL	M	AR1117023	R1	CP7407ATT	150/-65	0	500	20	0
SP2822BGL	M	AR1117023	R1	CP7407ATT	150/-65	0	1000	20	0



SP483EBBAL	R	AR1118003	R1	CY8C29666-24PVXIT	150/-65	0	500	20	0
SP483EBBAL	R	AR1118003	R1	CY8C29666-24PVXIT	150/-65	0	1000	18	0
SP483EBCAL	JT	AR1126030	R1	CY8C29666-24PVXIT	150/-65	0	100	20	0
SP483EBCAL	JT	AR1126030	R1	CY8C29666-24PVXIT	150/-65	0	300	19	0
SP483EBCAL	JT	AR1126030	R1	CY8C29666-24PVXIT	150/-65	0	500	19	0
SP483EBCAL	JT	AR1126031	R1	CY8C29666-24PVXIT	150/-65	0	100	17	0
SP483EBCAL	JT	AR1126031	R1	CY8C29666-24PVXIT	150/-65	0	300	17	0
SP483EBCAL	JT	AR1126031	R1	CY8C29666-24PVXIT	150/-65	0	500	15	0
SP483EBCAL	JT	AR1126032	R1	CY8C29666-24PVXIT	150/-65	0	100	20	0
SP483EBCAL	JT	AR1126032	R1	CY8C29666-24PVXIT	150/-65	0	300	20	0
SP483EBCAL	JT	AR1126032	R1	CY8C29666-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1126033	R1	CY8C29666-24PVXIT	150/-65	0	100	20	0
SP483EBCAL	JT	AR1126033	R1	CY8C29666-24PVXIT	150/-65	0	300	20	0
SP483EBCAL	JT	AR1126033	R1	CY8C29666-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1126034	R1	CY8C29666-24PVXIT	150/-65	0	100	19	0
SP483EBCAL	JT	AR1126034	R1	CY8C29666-24PVXIT	150/-65	0	300	19	0
SP483EBCAL	JT	AR1126034	R1	CY8C29666-24PVXIT	150/-65	0	500	19	0
SP483EBCAL	JT	AR1126035	R1	CY8C29666-24PVXIT	150/-65	0	100	20	0
SP483EBCAL	JT	AR1126035	R1	CY8C29666-24PVXIT	150/-65	0	300	20	0
SP483EBCAL	JT	AR1126035	R1	CY8C29666-24PVXIT	150/-65	0	500	14	0
SP483EBCAL	JT	AR1126036	R1	CY8C29666-24PVXIT	150/-65	0	100	20	0
SP483EBCAL	JT	AR1126036	R1	CY8C29666-24PVXIT	150/-65	0	300	20	0
SP483EBCAL	JT	AR1126036	R1	CY8C29666-24PVXIT	150/-65	0	500	17	0



SP483EBCAL	JT	AR1127022	R1	CY8C29666-24PVXI	150/-65	0	100	20	0
SP483EBCAL	JT	AR1127022	R1	CY8C29666-24PVXI	150/-65	0	300	20	0
SP483EBCAL	JT	AR1127022	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1127023	R1	CY8C27643-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1128022	R1	CY8C27643-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1128023	R1	CY8C29666-24PVXIT	150/-65	0	100	20	0
SP483EBCAL	JT	AR1128023	R1	CY8C29666-24PVXIT	150/-65	0	300	20	0
SP483EBCAL	JT	AR1128023	R1	CY8C29666-24PVXIT	150/-65	0	500	18	0
SP483EBCAL	JT	AR1128024	R1	CY8C29666-24PVXIT	150/-65	0	100	16	0
SP483EBCAL	JT	AR1128024	R1	CY8C29666-24PVXIT	150/-65	0	300	16	0
SP483EBCAL	JT	AR1128024	R1	CY8C29666-24PVXIT	150/-65	0	500	16	0
SP483EBCAL	JT	AR1131037	R1	CY8C27643-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1132023	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1133020	R1	CY8C29666-24PVXIT	150/-65	0	100	20	0
SP483EBCAL	JT	AR1133020	R1	CY8C29666-24PVXIT	150/-65	0	300	18	0
SP483EBCAL	JT	AR1133020	R1	CY8C29666-24PVXIT	150/-65	0	500	18	0
SP483EBCAL	JT	AR1134049	R1	CY8C27643-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1134050	R1	CY8C27643-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1134050	R1	CY8C27643-24PVXIT	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1134051	R1	CY8C29666-24PVXI	150/-65	0	100	19	0
SP483EBCAL	JT	AR1134051	R1	CY8C29666-24PVXI	150/-65	0	300	19	0
SP483EBCAL	JT	AR1136058	R1	CY8C29666-24PVXI	150/-65	0	100	20	0
SP483EBCAL	JT	AR1136058	R1	CY8C29666-24PVXI	150/-65	0	300	20	0



SP483EBCAL	JT	AR1136059	R1	CY8C29666-24PVXIT	150/-65	0	100	19	0
SP483EBCAL	JT	AR1136059	R1	CY8C29666-24PVXIT	150/-65	0	300	19	0
SP483EBCAL	JT	AR1136060	R1	CY8C29666-24PVXI	150/-65	0	100	19	0
SP483EBCAL	JT	AR1136060	R1	CY8C29666-24PVXI	150/-65	0	300	19	0
SP483EBCAL	JT	AR1136061	R1	CY8C29666-24PVXIT	150/-65	0	100	16	0
SP483EBCAL	JT	AR1136061	R1	CY8C29666-24PVXIT	150/-65	0	300	16	0
SP28213GL	T	111402	R1	CY8C29466-24PVXI	150/-65	0	500	80	0
SP28213GL	T	111402	R1	CY8C29466-24PVXI	150/-65	0	1000	80	0
SP28213GL	T	111402	R2	CY8C29466-24PVXI	150/-65	0	500	80	0
SP28213GL	T	111402	R2	CY8C29466-24PVXI	150/-65	0	1000	80	0
SP28213GL	T	111402	R3	CY8C29466-24PVXI	150/-65	0	500	80	0
SP28213GL	T	111402	R3	CY8C29466-24PVXI	150/-65	0	1000	80	0
SP483FBKGN	RA	MR112011	R1	CY8C20536A-24PVXIT	150/-65	0	1000	28	0
SP2822BGL	M	RR112001	R10	CY8C21534-12PVXET	150/-65	0	500	20	0
SP2822BGL	M	RR112001	R10	CY8C21534-12PVXET	150/-65	0	1000	20	0
SP2822BGL	M	RR112001	R15	CP7407ATT	150/-65	0	500	20	0
SP2822BGL	M	RR112001	R2	CY8C21534-12PVXE	150/-65	0	100	20	0
SP2822BGL	M	RR112001	R20	CY8C29466-12PVXET	150/-65	0	1000	20	0
SP2822BGL	M	RR112001	R21	CY8C21534-12PVXET	150/-65	0	1000	20	0
SP2822BGL	M	RR112001	R22	CY8C21534-12PVXET	150/-65	0	1000	20	0
SP2822BGL	M	RR112001	R27	CY8C29466-12PVXE	150/-65	0	1000	19	0
SP2822BGL	M	RR112001	R28	CY8C29466-12PVXE	150/-65	0	1000	20	0
SP483EBCAL	JT	RR113011	R1	CY8C29666-24PVXI	150/-65	0	100	13	0



SP483EBCAL	JT	RR113011	R10	CY8C29666-24PVXI	150/-65	0	100	100	0
SP483EBCAL	JT	RR113011	R2	CY8C29666-24PVXI	150/-65	0	100	35	0
SP483EBCAL	JT	RR113011	R3	CY8C29666-24PVXI	150/-65	0	100	50	0
SP483EBCAL	JT	RR113011	R4	CY8C29666-24PVXI	150/-65	0	100	67	0
SP483EBCAL	JT	RR113011	R5	CY8C29666-24PVXIT	150/-65	0	100	11	0
SP483EBCAL	JT	RR113011	R6	CY8C29666-24PVXI	150/-65	0	100	100	0
SP483EBCAL	JT	RR113011	R7	CY8C29666-24PVXI	150/-65	0	100	100	0
SP483EBCAL	JT	RR113011	R8	CY8C29666-24PVXI	150/-65	0	100	100	0
SP483EBCAL	JT	RR113011	R9	CY8C29666-24PVXI	150/-65	0	100	100	0
SP2822BGL	M	AR1112019	R1	CP7407AT	150/-65	0	500	19	0
SP2822BGL	M	AR1121043	R1	CP7407ATT	150/-65	0	500	20	0
SP2822BGL	M	AR1121044	R1	CP7407ATT	150/-65	0	500	20	0
SP2814HAL	M	AR1126020	R1	CS6250AM	150/-65	0	500	20	0
SP2814HAL	M	AR1126020	R1	CS6250AM	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1126030	R1	CY8C29666-24PVXIT	150/-65	0	1000	19	0
SP483EBCAL	JT	AR1126031	R1	CY8C29666-24PVXIT	150/-65	0	1000	13	0
SP483EBCAL	JT	AR1126032	R1	CY8C29666-24PVXIT	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1126033	R1	CY8C29666-24PVXIT	150/-65	0	1000	19	0
SP483EBCAL	JT	AR1126034	R1	CY8C29666-24PVXIT	150/-65	0	1000	19	0
SP483EBCAL	JT	AR1126035	R1	CY8C29666-24PVXIT	150/-65	0	1000	13	0
SP483EBCAL	JT	AR1126036	R1	CY8C29666-24PVXIT	150/-65	0	1000	17	0
SP483EBCAL	JT	AR1127022	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1127023	R1	CY8C27643-24PVXI	150/-65	0	1000	20	0



SP483EBCAL	JT	AR1128022	R1	CY8C27643-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1128023	R1	CY8C29666-24PVXIT	150/-65	0	1000	18	0
SP483EBCAL	JT	AR1128024	R1	CY8C29666-24PVXIT	150/-65	0	1000	16	0
SP483EBCAL	JT	AR1131037	R1	CY8C27643-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1132023	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1133020	R1	CY8C29666-24PVXIT	150/-65	0	1000	18	0
SP483EBCAL	JT	AR1134047	R1	CY8C27643-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1134047	R1	CY8C27643-24PVXIT	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1134049	R1	CY8C27643-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1134051	R1	CY8C29666-24PVXI	150/-65	0	500	19	0
SP483EBCAL	JT	AR1134051	R1	CY8C29666-24PVXI	150/-65	0	1000	19	0
SP483EBCAL	JT	AR1134053	R1	CY8C27643-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1134053	R1	CY8C27643-24PVXIT	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1134054	R1	CY8C27643-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1134054	R1	CY8C27643-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1134055	R1	CY8C27643-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1134055	R1	CY8C27643-24PVXIT	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1135044	R1	CY8C29666-24PVXIT	150/-65	0	500	19	0
SP483EBCAL	JT	AR1135044	R1	CY8C29666-24PVXIT	150/-65	0	1000	19	0
SP483EBCAL	JT	AR1135046	R1	CY8C29666-24PVXI	150/-65	0	500	15	0
SP483EBCAL	JT	AR1135046	R1	CY8C29666-24PVXI	150/-65	0	1000	15	0
SP483EBCAL	JT	AR1136058	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1136058	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0



SP483EBCAL	JT	AR1136059	R1	CY8C29666-24PVXIT	150/-65	0	500	19	0
SP483EBCAL	JT	AR1136059	R1	CY8C29666-24PVXIT	150/-65	0	1000	19	0
SP483EBCAL	JT	AR1136060	R1	CY8C29666-24PVXI	150/-65	0	500	19	0
SP483EBCAL	JT	AR1136060	R1	CY8C29666-24PVXI	150/-65	0	1000	19	0
SP483EBCAL	JT	AR1136061	R1	CY8C29666-24PVXIT	150/-65	0	500	16	0
SP483EBCAL	JT	AR1136061	R1	CY8C29666-24PVXIT	150/-65	0	1000	16	0
SP483EBCAL	JT	AR1137024	R1	CY8C29666-24PVXIT	150/-65	0	100	20	0
SP483EBCAL	JT	AR1137024	R1	CY8C29666-24PVXIT	150/-65	0	300	20	0
SP483EBCAL	JT	AR1137024	R1	CY8C29666-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1137024	R1	CY8C29666-24PVXIT	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1137025	R1	CY8C29666-24PVXI	150/-65	0	100	18	0
SP483EBCAL	JT	AR1137025	R1	CY8C29666-24PVXI	150/-65	0	300	18	0
SP483EBCAL	JT	AR1137025	R1	CY8C29666-24PVXI	150/-65	0	500	18	0
SP483EBCAL	JT	AR1137025	R1	CY8C29666-24PVXI	150/-65	0	1000	18	0
SP483EBCAL	JT	AR1137026	R1	CY8C29666-24PVXI	150/-65	0	100	20	0
SP483EBCAL	JT	AR1137026	R1	CY8C29666-24PVXI	150/-65	0	300	20	0
SP483EBCAL	JT	AR1137026	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1137026	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP2822BGL	M	MR111057	R1	CY8C21534-24PVXAT	150/-65	0	500	30	0
SP2822BGL	M	MR111057	R1	CY8C21534-24PVXAT	150/-65	0	1000	29	0
SP28214GL	T	MR113052	R1	CY8C21534-24PVXI	150/-65	0	500	30	0
SP28214GL	T	MR113052	R1	CY8C21534-24PVXI	150/-65	0	1000	30	0
SP2822BGL	M	AR1112019	R1	CP7407AT	150/-65	0	1000	19	0



SP2822BGL	M	AR1121043	R1	CP7407ATT	150/-65	0	1000	20	0
SP2822BGL	M	AR1121044	R1	CP7407ATT	150/-65	0	1000	20	0
SP2822BGL	M	AR1126021	R1	CY8C21534-12PVXET	150/-65	0	500	20	0
SP2822BGL	M	AR1126021	R1	CY8C21534-12PVXET	150/-65	0	1000	20	0
SP2822BGL	M	MR112009	R1	CY8C21534-24PVXAT	150/-65	0	500	29	0
SP2822BGL	M	MR112009	R1	CY8C21534-24PVXAT	150/-65	0	1000	29	0
SP282ABBGN	RA	MR112024	R1	CY8C24533-24PVXI	150/-65	0	500	30	0
SP282ABBGN	RA	MR112024	R1	CY8C24533-24PVXI	150/-65	0	1000	30	0
SP483JBALL	R	MR112029	R1	CY14B101LA-SP25XI	150/-65	0	1000	30	0
SP483ACGAN	R	MR113013	R1	CY8C20536A-24PVXIT	150/-65	0	1000	29	0
SP483ACGAN	R	MR113013	R1	CY8C20536A-24PVXIT	150/-65	0	500	29	0
SP282ABBGN	RA	MR113014	R1	CY8C21534-24PVXI	150/-65	0	500	30	0
SP282ABBGN	RA	MR113014	R1	CY8C21534-24PVXI	150/-65	0	1000	30	0
SP2822BGL	M	MR113037	R1	CY8C21534-24PVXA	150/-65	0	500	30	0
SP2822BGL	M	MR113037	R1	CY8C21534-24PVXA	150/-65	0	1000	30	0
SP2822BGL	M	MR114003	R1	CP7407ATT	150/-65	0	500	30	0
SP2822BGL	M	MR114003	R1	CP7407ATT	150/-65	0	1000	30	0
SP282ABBGN	RA	MR114023	R1	CY8C24533-24PVXI	150/-65	0	500	30	0
SP282ABBGN	RA	MR114023	R1	CY8C24533-24PVXI	150/-65	0	1000	30	0
SP483EBCAL	JT	NR113007	R1	CY8C27643-24PVXI	150/-65	0	500	25	0
SP483EBCAL	JT	NR113007	R1	CY8C27643-24PVXI	150/-65	0	1000	25	0
SP563DBC GN	JT	NR113007	R2	CY7C68013A-56PVXC	150/-65	0	1000	23	0
SP563DBC GN	JT	NR113007	R3	CY7C68013A-56PVXC	150/-65	0	500	25	0



SP563DBC GN	JT	NR113007	R3	CY7C68013A-56PVXC	150/-65	0	1000	25	0
SP483MBB GN	RA	114601	R7	CY8C29666-24PVXIT	150/-65	0	1000	77	0
SP483MBB GN	RA	114601	R8	CY8C29666-24PVXIT	150/-65	0	1000	77	0
SP483MBB GN	RA	MR114067	R1	CY8C3246PVI-147	150/-65	0	500	30	0
SP483EBCAL	JT	MR114073	R1	CY8C29666-24PVXIT	150/-65	0	500	30	0
SP483EBCAL	JT	MR114073	R1	CY8C29666-24PVXIT	150/-65	0	1000	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150/-65	0	500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150/-65	0	1000	30	0
SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	150/-65	0	500	30	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	150/-65	0	500	22	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	150/-65	0	500	8	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	150/-65	0	1000	29	0
SP282ABB GN	RA	MR121043	R1	CY8C27443-24PVXIT	150/-65	0	500	30	0
SP282ABB GN	RA	MR121043	R1	CY8C27443-24PVXIT	150/-65	0	1000	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150/-65	0	500	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150/-65	0	1000	27	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150/-65	0	1000	2	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	150/-65	0	500	29	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	150/-65	0	1000	28	0
SP282ABB GN	RA	MR122004	R1	CY8C27443-24PVXIT	150/-65	0	500	30	0
SP282ABB GN	RA	MR122004	R1	CY8C27443-24PVXIT	150/-65	0	1000	30	0

Summary for Package Family: SSOP (Pb-Free)

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0



TQFP (Pb-Free)

AZ100SFHAL	JT	110905	R1B	CY8C5588AXI-060ES1	150/-65	0	1000	74	0
AZ100SFLAL	R	110905	R3	CY8C5588AXI-060ES1	150/-65	0	500	78	0
AZ100SFLAL	R	110905	R3	CY8C5588AXI-060ES1	150/-65	0	1000	78	0
AZ100SFLAL	R	110905	R4	CY8C5568AXI-060	150/-65	0	500	77	0
AZ100SFLAL	R	110905	R4	CY8C5568AXI-060	150/-65	0	1000	76	0
AZ100SFHAL	JT	111817	R1	CY8C5588AXI-060ES1	150/-65	0	1000	74	0
AZ100SFHAL	JT	111817	R2	CY8C5588AXI-060ES1	150/-65	0	500	92	0
AZ100SFHAL	JT	111817	R2	CY8C5588AXI-060ES1	150/-65	0	1000	92	0
AZ100SFHAL	JT	111817	R3	CY8C5588AXI-060ES1	150/-65	0	1000	92	0
AZ100RJBLN	RA	112602	R1	CY7C1350G-200AXI	150/-65	0	1000	77	0
AZ100RJBLN	RA	112602	R2	CY7C1350G-200AXI	150/-65	0	1000	74	0
AZ100RJBLN	RA	112602	R3	CY7C1350G-200AXI	150/-65	0	1000	74	0
AZ100RJBLN	RA	112602	R4	CY7C1350G-200AXI	150/-65	0	1000	77	0
AZ100RJBLN	RA	112602	R5	CY7C1350G-200AXI	150/-65	0	1000	73	0
AZ100RJBLN	RA	112602	R6	CY7C1350G-200AXI	150/-65	0	1000	74	0
AZ32LXGAN	Q	MR111025	R1	CY29946AXI	150/-65	0	1000	30	0
AZ160SBGAL	G	MR112037	R1	CY37256P160-83AXC	150/-65	0	1000	30	0
AZ32BXGAN	Q	MR112077	R1	CY7C4201V-15AXC	150/-65	0	500	29	0
AZ32BXGAN	Q	MR112077	R1	CY7C4201V-15AXC	150/-65	0	1000	28	0
AZ44DGAGL	Q	MR112058	R1	CY7B995AXIT	150/-65	0	500	28	0
AZ44DGAGL	Q	MR112058	R1	CY7B995AXIT	150/-65	0	1000	28	0
AZ32GXGAN	G	MR113046	R1	CY29940AXIT	150/-65	0	500	30	0



AZ100SFGAL	JT	RR114011	R1	CS7510AM	150/-65	0	500	78	0
AZ100SFKAL	RA	112302	R1	CY8C5568AXI-060	150/-65	0	500	77	0
AZ100SFKAL	RA	112302	R2	CY8C5568AXI-060	150/-65	0	500	77	0
AZ100SFKAL	RA	112302	R2	CY8C5568AXI-060	150/-65	0	1000	75	0
AZ100SFKAL	R	112302	R3	CY8C5568AXI-060	150/-65	0	500	77	0
AZ100SFKAL	R	112302	R3	CY8C5568AXI-060	150/-65	0	1000	48	0
AZ100SFKAL	RA	112302	R4	CY8C5568AXI-060	150/-65	0	500	77	0
AZ100SFKAL	RA	112302	R4	CY8C5568AXI-060	150/-65	0	1000	48	0
AZ100SFKAL	RA	112302	R5	CY8C5568AXI-060	150/-65	0	500	77	0
AZ100SFKAL	RA	112302	R6	CY8C5568AXI-060	150/-65	0	500	76	0
AZ64JAAALL	M	113604	R1	CY7C144E-55JXC	150/-65	0	500	80	0
AZ64JAAALL	M	113604	R1	CY7C144E-55JXC	150/-65	0	1000	80	0
AZ64JAAALL	M	113604	R4	CY7C144E-55JXC	150/-65	0	500	79	0
AZ64JAAALL	M	113604	R4	CY7C144E-55JXC	150/-65	0	1000	79	0
AZ100SFHAL	JT	114110	R1B	CY8C5568AXI-060	150/-65	0	500	80	0
AZ100SFDAL	R	MR112003	R1	CY8C3245AXI-158	150/-65	0	1000	18	0
AZ100RUBLN	R	MR112043	R1	CY7C1350G-200AXC	150/-65	0	1000	30	0
AZ32GXGAN	G	MR112054	R1	CY29940AXCT	150/-65	0	500	30	0
AZ32GXGAN	G	MR112054	R1	CY29940AXCT	150/-65	0	1000	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150/-65	0	500	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150/-65	0	1000	30	0
AZ32GXGAN	G	MR113046	R1	CY29940AXIT	150/-65	0	1000	30	0
AZ52AAGAL	Q	MR113051	R1	CY29972AXI	150/-65	0	500	30	0



AZ32GXGAN	G	MR114034	R1	CY29942AXCT	150/-65	0	500	30	0
AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	150/-65	0	500	30	0
AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	150/-65	0	1000	30	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	150/-65	0	1000	27	0
AZ144AAAGR	Q	MR114081	R1	CY7C057V-15AXI	150/-65	0	500	29	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	150/-65	0	500	30	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	150/-65	0	500	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	150/-65	0	500	30	0
AZ44SFHAN	JT	NR113005	R1	CY37032VP44-100AXCKJ	150/-65	0	500	25	0
AZ44SFHAN	JT	NR113005	R1	CY37032VP44-100AXCKJ	150/-65	0	1000	25	0
AZ64IBABLN	JT	NR113005	R2	CY7C4265-10AXIKJ	150/-65	0	500	25	0
AZ64IBABLN	JT	NR113005	R2	CY7C4265-10AXIKJ	150/-65	0	1000	25	0
AZ100RUCLN	JT	NR113006	R1	CY7C68013A-100AXCKJ	150/-65	0	500	25	0
AZ100RUCLN	JT	NR113006	R2	CY7C68013A-100AXIKJ	150/-65	0	500	25	0
AZ100RUCLN	JT	NR113006	R2	CY7C68013A-100AXIKJ	150/-65	0	1000	25	0
AZ100RUCLN	JT	NR113006	R1	CY7C68013A-100AXCKJ	150/-65	0	1000	25	0
AZ100SFEAL	JT	NR113006	R3	CY7C026AV-25AXIKJ	150/-65	0	500	25	0
AZ100SFEAL	JT	NR113006	R3	CY7C026AV-25AXIKJ	150/-65	0	1000	25	0
AZ100SFGAL	JT	RR114011	R1	CS7510AM	150/-65	0	1000	78	0
AZ100SFDAL	R	101101	R4	CY8C3866AXI-040ES3	150/-65	0	1000	79	0
AZ100SFDAL	R	101101	R5	CY8C3866AXI-040ES3	150/-65	0	1000	77	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150/-65	0	1500	30	0
AZ144AAAGR	Q	MR114081	R1	CY7C057V-15AXI	150/-65	0	1000	29	0



AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	150/-65	0	1000	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	150/-65	0	500	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	150/-65	0	1000	29	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	150/-65	0	1000	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	150/-65	0	1000	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	150/-65	0	500	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	150/-65	0	1000	28	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	150/-65	0	500	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	150/-65	0	1000	30	0
AZ32BXGAN	Q	MR122024	R1	CY7C4201V-15AXC	150/-65	0	500	30	0

Summary for Package Family: TQFP (Pb-Free)

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3797 0

TSOP (Pb-free)

ZT32RABALL	T	MR113036	R1	CY62128EV30LL-45ZXI	150/-65	0	500	30	0
ZT32RABALL	T	MR113036	R1	CY62128EV30LL-45ZXI	150/-65	0	1000	30	0
ZT28R2BCLN	JT	MR114004	R1	CY62256VNLL-70ZXI	150/-65	0	500	30	0
ZT28R2BCLN	JT	MR114004	R1	CY62256VNLL-70ZXI	150/-65	0	1000	30	0
ZT32RBBALL	T	MR114065	R1	CY62128ELL-45ZXA	150/-65	0	500	30	0
ZT32RBBALL	T	MR121034	R1	CY62128ELL-45ZXA	150/-65	0	500	30	0
ZT28R4BAGL	JT	NR113004	R2	CY7C1399BN-12ZXC	150/-65	0	500	25	0
ZT28R2BCLN	JT	NR113004	R3	CY62256VNLL-70ZXC	150/-65	0	500	25	0
ZT28R2BCLN	JT	NR113004	R3	CY62256VNLL-70ZXC	150/-65	0	1000	25	0
ZT28R4BAGL	JT	NR113004	R2	CY7C1399BN-12ZXC	150/-65	0	1000	25	0



Summary for Package Family: TSOP (Pb-free)

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Sum

280 0

TSOP I (Pb-Free)

ZB32RKALL	T	MR113003	R1	CY62128EV30LL-45ZAXI	150/-65	0	500	30	0
ZB32RKALL	T	MR113003	R1	CY62128EV30LL-45ZAXI	150/-65	0	1000	30	0
ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	150/-65	0	500	30	0
ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	150/-65	0	1000	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	150/-65	0	500	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	150/-65	0	1000	30	0
ZB32RHCALN	JT	NR113004	R1	CY62138FV30LL-45ZAXI	150/-65	0	500	25	0
ZB32RHCALN	JT	NR113004	R1	CY62138FV30LL-45ZAXI	150/-65	0	1000	25	0

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

8 records

Sum

230 0

TSOP II (Pb-Free)

ZW444VCLL	R	111810	R1	CY62136FV30LL	150/-65	0	500	100	0
ZW444VCLL	R	111810	R1	CY62136FV30LL	150/-65	0	1000	90	0
ZW444VCLL	R	111810	R2	7A62136GC	150/-65	0	500	100	0
ZW444VCLL	R	111810	R2	7A62136GC	150/-65	0	1000	90	0
ZW444VCLL	R	111810	R3	CY62136FV30LL	150/-65	0	1000	90	0
ZW444VCLL	R	111810	R3	CY62136FV30LL	150/-65	0	500	100	0
ZW54BGALL	G	MR112042	R1	CY7C1061DV33-10ZSXI	150/-65	0	500	30	0
ZW54BGALL	G	MR112042	R1	CY7C1061DV33-10ZSXI	150/-65	0	1000	30	0
ZW54BGALL	G	MR113032	R1	CY7C1061DV33-10ZSXIT	150/-65	0	500	30	0



ZW54BGALL	G	MR113032	R1	CY7C1061DV33-10ZSXIT	150/-65	0	1000	30	0
ZW444VCLL	R	AR1122002	R1	CY62137FV30LL-55ZSXE	150/-65	0	500	20	0
ZW444VCLL	R	AR1122002	R1	CY62137FV30LL-55ZSXE	150/-65	0	1000	20	0
ZW444VCLL	R	AR1124002	R1	CY62137FV30LL-55ZSXE	150/-65	0	500	20	0
ZW444VCLL	R	AR1124002	R1	CY62137FV30LL-55ZSXE	150/-65	0	1000	20	0
ZW444AMLN	R	AR1126002	R1	CY62146ELL-45ZSXA	150/-65	0	500	20	0
ZW444YBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150/-65	0	500	30	0
ZW444YBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150/-65	0	1000	30	0
ZW444ALLR	G	MR113047	R1	CY7C1051DV33-10ZSXI	150/-65	0	1000	30	0
ZW444ALLR	G	MR113047	R1	CY7C1051DV33-10ZSXI	150/-65	0	500	30	0
ZW444WBCLN	R	104606	R2	CYRS1049DV33	150/-65	0	500	77	0
ZW444WBCLN	R	104606	R2	CYRS1049DV33	150/-65	0	1000	77	0
ZW444AAGLL	T	113210	R1	CY7C1011DV33-10ZSXI	150/-65	0	500	80	0
ZW444AAGLL	T	113210	R2	CY7C1041DV33-10ZSXIT	150/-65	0	500	80	0
ZW444AKDLN	JT	111409	R4	7A134101FC-JTZWE	150/-65	0	500	100	0
ZW444AKDLN	JT	111409	R4	7A134101FC-JTZWE	150/-65	0	1000	90	0
ZW324GALL	T	MR112015	R1	CY7C1019DV33-10ZSXIT	150/-65	0	500	30	0
ZW324GALL	T	MR112015	R1	CY7C1019DV33-10ZSXIT	150/-65	0	1000	30	0
ZW324CBLL	T	MR113004	R1	CY62148ELL-45ZSXIT	150/-65	0	500	30	0
ZW324CBLL	T	MR113004	R1	CY62148ELL-45ZSXIT	150/-65	0	1000	30	0
ZW44AAXAGL	RA	MR113031	R1	CY7C1020DV33-10ZSXI	150/-65	0	500	30	0
ZW44AAXAGL	RA	MR113031	R1	CY7C1020DV33-10ZSXI	150/-65	0	1000	30	0
ZW444AAGLL	T	MR113043	R1	CY71041DV33-10ZSXI	150/-65	0	500	30	0



ZW444AAGLL	T	MR113043	R1	CY71041DV33-10ZSXI	150/-65	0	1000	30	0
ZW444AHLL	R	MR114007	R1	CY62126EV30LL-55ZSXE	150/-65	0	500	30	0
ZW444ABXAGL	RA	MR114027	R1	CY62137EV30LL-45ZSXI	150/-65	0	500	30	0
ZW444ALLR	G	MR114043	R1	CY7C1051DV33-10ZSXI	150/-65	0	500	30	0

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

36 records

Sum

1744 0

RTSOP (Pb-free)

ZY28R2CLN	JT	MR114009	R1	CY62256VNLL-70ZRXIT	150/-65	0	500	30	
ZY28R2CLN	JT	MR114009	R1	CY62256VNLL-70ZRXIT	150/-65	0	1000	30	

Summary for Package Family: RTSOP (Pb-free)

2 records

Sum

60 0

TSSOP (Pb-Free)

ZZ2014BGN	T	MR112047	R1	CY25404ZXI-003T	150/-65	0	1000	30	0
ZZ1614HAN	T	RR112027	R1	CY25823ZXCT	150/-65	0	100	379	0
ZZ1614HAN	T	RR112027	R2	CY25823ZXC	150/-65	0	100	26	0
ZZ1620GDAN	RA	MR113010	R1	CY24293ZXI	150/-65	0	1000	24	0
ZZ1620GDAN	RA	MR113010	R1	CY24293ZXI	150/-65	0	500	30	0
ZZ2014BGN	T	MR113053	R1	CY25404ZXI-003T	150/-65	0	500	30	0
ZZ2014BGN	T	MR113053	R1	CY25404ZXI-003T	150/-65	0	1000	30	0
ZZ1614HAN	T	111405	R1	CY23FS04ZXC	150/-65	0	1000	80	0
ZZ1614HAN	T	111405	R1	CY23FS04ZXC	150/-65	0	500	80	0
ZZ1614HAN	T	111405	R2	CY23FS04ZXC	150/-65	0	1000	80	0
ZZ1614HAN	T	111405	R3	CY23FS04ZXC	150/-65	0	1000	80	0



ZZ1614HAN	T	111405	R3	CY23FS04ZXC	150/-65	0	500	80	0
ZZ2014BGN	T	111408	R1	CYISM530AZXC	150/-65	0	1000	80	0
ZZ2014BGN	T	111408	R1	CYISM530AZXC	150/-65	0	500	80	0
ZZ2014BGN	T	111408	R2	CYISM530AZXC	150/-65	0	500	80	0
ZZ2014BGN	T	111408	R2	CYISM530AZXC	150/-65	0	1000	80	0
ZZ2014BGN	T	111408	R3	CYISM530AZXC	150/-65	0	1000	80	0
ZZ2014BGN	T	111408	R3	CYISM530AZXC	150/-65	0	500	80	0
ZZ1613HAN	T	MR113015	R1	CY2308ZXC-1H	150/-65	0	500	30	0
ZZ1613HAN	T	MR113015	R1	CY2308ZXC-1H	150/-65	0	1000	29	0
ZZ1614HAN	T	MR114022	R1	CY22388ZXC-25T	150/-65	0	500	30	0
ZZ1614HAN	T	MR114022	R1	CY22388ZXC-25T	150/-65	0	1000	30	0
ZZ1620GBAN	RA	MR114026	R1	CY22388ZXC-26T	150/-65	0	500	30	0
ZZ1620GBAN	RA	MR114026	R1	CY22388ZXC-26T	150/-65	0	1000	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	150/-65	0	1000	29	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	150/-65	0	500	29	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	150/-65	0	500	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	150/-65	0	1000	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	150/-65	0	1000	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	150/-65	0	500	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	150/-65	0	500	29	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	150/-65	0	500	30	0

Summary for Package Family: TSSOP (Pb-Free)

32

records

Sum

1845 0



VFBGA (0.75-0.8, 0.3mm)

BV48BNALE	G	MR112040	R1	CY62167DV30LL-70BVI	150/-65	0	1000	30	0
BV48ATALE	RA	MR113030	R1	CY62157DV30LL-55BVIT	150/-65	0	1000	27	0
BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	150/-65	0	500	30	0
BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	150/-65	0	1000	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	150/-65	0	500	29	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	150/-65	0	1000	29	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	150/-65	0	500	30	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	150/-65	0	1000	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	150/-65	0	500	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	150/-65	0	1000	30	0

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

Sum

10 records
295 0

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

BZ48ZBAALL	RA	111605	R1	CY621675EV30LL-45BVXI	150/-65	0	1000	79	0
BZ48ABCALL	AT	MR112064	R1	CY62126EV30LL-45BVXIT	150/-65	0	1000	30	0
BZ48ABCALL	AT	MR112064	R1	CY62126EV30LL-45BVXIT	150/-65	0	500	30	0
BZ48CFAALL	G	MR113007	R1	CY62157EV30LL-45BVXIT	150/-65	0	500	29	0
BZ48CFAALL	G	MR113007	R1	CY62157EV30LL-45BVXIT	150/-65	0	1000	29	0
BZ100HAALL	RA	MR113008	R1	CYWB0226ABS-BVXI	150/-65	0	1000	17	0
BZ100HAALL	RA	MR113008	R1	CYWB0226ABS-BVXI	150/-65	0	500	30	0
BZ48ZEAALE	RA	MR113089	R1	CY62157EV18LL-55BVXIT	150/-65	0	1000	79	0
BZ48ZEAALE	RA	MR113089	R1	CY62157EV18LL-55BVXIT	150/-65	0	500	79	0



BZ48CRALL	G	MR113088	R1	CY62167EV30LL-45BVXI	150/-65	0	1000	80	0
BZ48CRALL	G	MR113088	R1	CY62167EV30LL-45BVXI	150/-65	0	500	80	0
BZ48CNAALL	G	MR113090	R1	CY62167DV30LL-55BVXI	150/-65	0	500	79	0
BZ48CNAALL	G	MR113090	R1	CY62167DV30LL-55BVXI	150/-65	0	1000	78	0
BZ48CNAALL	G	MR113091	R1	CY62167DV30LL-55BVXI	150/-65	0	1000	80	0
BZ48CNAALL	G	MR113091	R1	CY62167DV30LL-55BVXI	150/-65	0	500	80	0
BZ84AAAAAL	RA	112210	R1	CY8CTMA1036BZI-13ES	150/-65	0	500	80	0
BZ84AAAAAL	RA	112210	R1	CY8CTMA1036BZI-13ES	150/-65	0	1000	80	0
BZ84AAAAAL	RA	112210	R2	CY8CTMA1036BZI-13ES2	150/-65	0	500	80	0
BZ84AAAAAL	RA	112210	R2	CY8CTMA1036BZI-13ES2	150/-65	0	1000	80	0
BZ84AAAAAL	RA	112210	R3	CY8CTMA1036BZI-13ES	150/-65	0	500	80	0
BZ84AAAAAL	RA	112210	R3	CY8CTMA1036BZI-13ES	150/-65	0	1000	80	0
BZ84AAAAAL	RA	112210	R4	CY8CTMA1036BZI-13ES	150/-65	0	500	80	0
BZ48DAGLL	RA	MR113028	R1	CY62137FV30LL-45BVXIT	150/-65	0	500	30	0
BZ48DAGLL	RA	MR113028	R1	CY62137FV30LL-45BVXIT	150/-65	0	1000	29	0
BZ48CEAALL	G	MR113057	R1	CY62147EV30LL-45BVXA	150/-65	0	500	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	150/-65	0	500	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	150/-65	0	1000	30	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150/-65	0	1000	104	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150/-65	0	1500	94	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150/-65	0	2000	94	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150/-65	0	1000	98	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150/-65	0	1500	88	0



BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150/-65	0	2000	88	0
BZ48CEAALL	G	MR113057	R1	CY62147EV30LL-45BVXA	150/-65	0	1000	30	0
BZ48CEAALL	G	MR114006	R1	CY62147EV30LL-45B2XA	150/-65	0	500	30	0
BZ48CNAALL	G	MR114018	R1	CY62167DV30LL-55BVXI	150/-65	0	500	30	0
BZ48CNAALL	G	MR114075	R1	CY62167DV30LL-55BVXI	150/-65	0	500	30	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	150/-65	0	500	30	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	150/-65	0	1000	30	0
BZ48CEAALL	G	MR121025	R1	CY62147EV30LL-45BVXA	150/-65	0	500	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	150/-65	0	500	30	0
BZ48CEAALL	G	MR122011	R1	CY62147EV30LL-45BVXA	150/-65	0	500	30	0

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

Sum

42

records

2424

0



Rev.	ECN No.	Orig. of Change	Description of Change
**	3701390	JYF	Initial Release

Distribution: WEB

Posting: NONE