

2009 Q3 RELIABILITY REPORT

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

This report summarizes Cypress Semiconductor Product Reliability for the period of the 1st quarter of 2009. It includes data from devices fabricated at both internal Cypress and external subcontractor wafer fabrication and assembly facilities.

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

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

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

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

Sabbas Daniel
Executive Vice-President, Quality



2.0 PRODUCT RELIABILITY

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

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

2.1 EARLY FAILURE RATE SUMMARY

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

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

Table 1. Early Failure Rate Summary

Technology	Device Hours	# Failed	FIT Rate	PPM	Failure Mode
B53	15,107	0	Insufficient	0	None
C9	2,057,040	16	25	373	Fab defect-16 (see Note 2)
L8	11,179	0	Insufficient	0	None
R8	330,139	0	16	0	None
C8	156,632	0	34	0	None
S8	698,112	2	13	134	Fab defect-2 (see Note 3)
R95	424,435	0	13	0	None
R9	1,485,493	4	10	95	Fab defect-4 (see Note 4)
R7	261,816	0	21	0	None
S4	1,648,770	0	3	0	None
0.25um	4,272	0	Insufficient	0	None
Grand Total	7,092,994	22	10	114	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) CAR 200813026 – Tungsten particle reduction in the Local Interconnect layers and improved test screens
 3) CAR 200930051– On-going root cause analysis
 4) CAR 200925019 – Continuous improvement on CMI fab process

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	Failure Mode
B53	366,598	0	15	None
L8	467,011	0	12	None
R8	871,053	0	6	None
C8	846,084	0	6	None
C9	287,340	0	19	None
R9	856,257	0	6	None
S8	2,350,828	0	2	None
S4	3,646,342	0	1	None
0.25um	44,000	0	Insufficient	None
R7	658,152	0	8	None
R95	617,435	0	9	None
Grand Total	11,011,101	0	0	None

2.3 DATA RETENTION SUMMARY

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

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

Table 3. Data Retention Summary

Technology	Sample Size	Device-Hours	# Failed	PPM	Failure Mode
S4	4,142	2,503,328	0	0	None
S8	3,665	2,908,855	0	0	None
Grand Total	7,807	5,412,183	0	0	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.

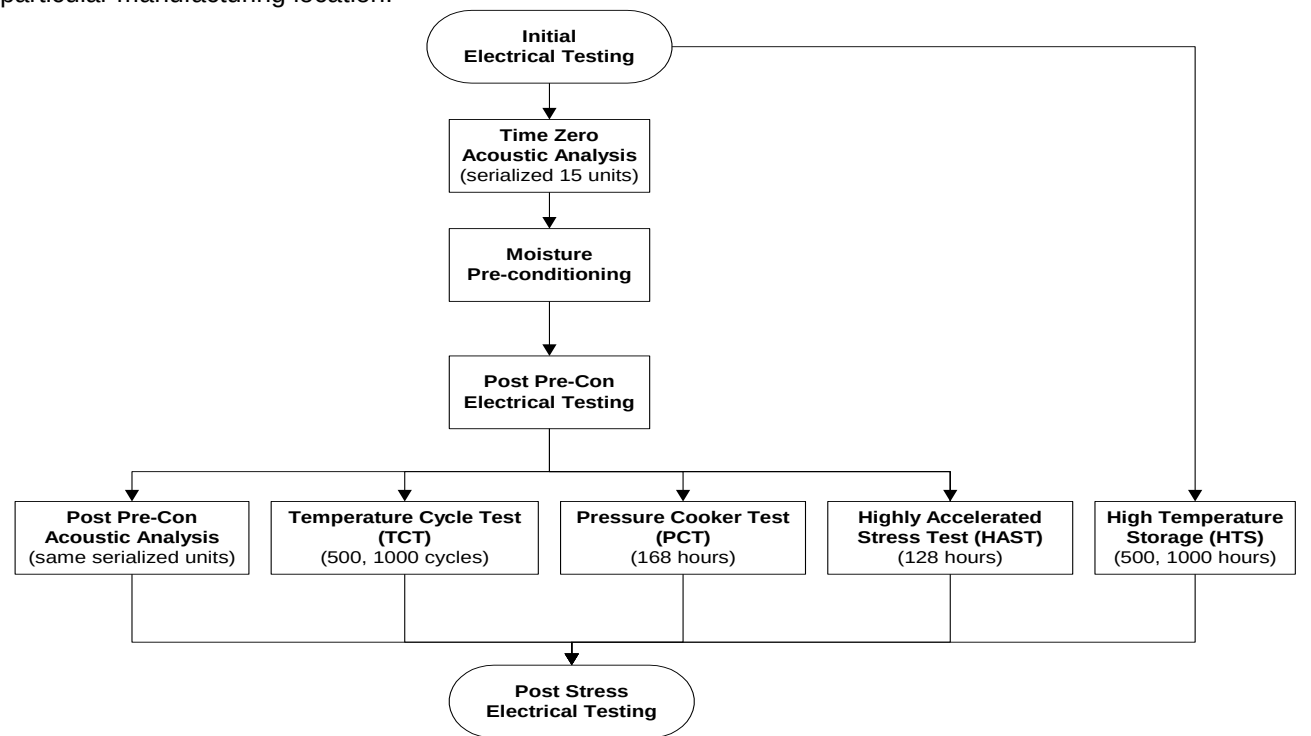


Figure 1. Cypress Package Reliability Stress Flow

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
FBGA (0.75-0.8, 0.3mm, Pb-free)	246	0	0	None
FBGA (1.0-1.27)	467	0	0	None
FBGA (1.0-1.27, Pb-free)	731	0	0	
FLIPCHIP CSP (Pb-Free)	150	0	0	None
PBGA (1.27)	338	0	0	None
PBGA (1.27, Pb-free)	25	0	0	None
PBGA (Cavity/Heat Sink)	80	0	0	None
PDIP (Pb-Free)	727	0	0	None
PLCC	240	0	0	None
PLCC (Pb-Free)	160	0	0	None
PQFP (Pb-free)	190	0	0	None
QFN (0.4mm, Saw Type, Pb-free)	190	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	186	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	1,976	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	939	0	0	None
QFN (Punch Type, Pb-Free)	998	0	0	None
QFN (Saw Type, Pb-free)	1,791	0	0	None
QSOP (Pb-Free)	190	0	0	None
RTSOP (Pb-free)	80	0	0	None
SNC (Pb-Free)	382	0	0	None
SOIC	110	0	0	None
SOIC (J-Lead)	258	0	0	None
SOIC (J-Lead, Pb-Free)	647	0	0	None
SOIC (Pb-Free)	2,131	0	0	None
SSOP	60	0	0	None
SSOP (Pb-Free)	2,867	0	0	None
TQFP	110	0	0	None
TQFP (10mm X 10mm)	78	0	0	None
TQFP (Pb-Free)	960	0	0	None
TSOP (Pb-free)	1,200	0	0	None
TSOP I (Pb-Free)	743	0	0	None
TSOP II (Pb-Free)	1,347	0	0	None
TSSOP	250	0	0	None
TSSOP (Pb-Free)	537	0	0	None
VFBGA (0.75-0.8, 0.3mm)	346	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	1,398	0	0	None
Grand Total	23,128	0	0.00%	See above

3.2 HIGHLY ACCELERATED STRESS TEST (HAST)

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

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

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

Package	Sample Size	# Failed	Defects %	Failure Mode
FBGA (0.75-0.8, 0.3mm)	80	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	98	0	0	None
FBGA (1.0-1.27)	68	0	0	None
FBGA (1.0-1.27, Pb-free)	306	0	0	None
FLIPCHIP CSP (Pb-Free)	73	0	0	None
PDIP (Pb-Free)	570	0	0	None
PLCC	40	0	0	None
PLCC (Pb-Free)	25	0	0	None
QFN (0.4mm, Saw Type, Pb-free)	97	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	75	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	960	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	176	0	0	None
QFN (Punch Type, Pb-Free)	461	0	0	None
QFN (Saw Type, Pb-free)	1,286	0	0	None
QSOP (Pb-Free)	50	0	0	None
RTSOP (Pb-free)	25	0	0	None
SNC (Pb-Free)	180	0	0	None
SOIC	50	0	0	None
SOIC (J-Lead)	264	0	0	None
SOIC (J-Lead, Pb-Free)	488	0	0	None
SOIC (Pb-Free)	1,208	0	0	None
SSOP	30	0	0	None
SSOP (Pb-Free)	1,286	0	0	None
TQFP	25	0	0	None
TQFP (Pb-Free)	279	0	0	None
TSOP (Pb-free)	645	0	0	None
TSOP I (Pb-Free)	440	0	0	None
TSOP II (Pb-Free)	1,103	0	0	None
TSSOP	162	0	0	None
TSSOP (Pb-Free)	271	0	0	None
VFBGA (0.75-0.8, 0.3mm)	25	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	461	0	0	None
Grand Total	11307	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
FBGA (0.75-0.8, 0.3mm, Pb-free)	507	0	0	None
FBGA (1.0-1.27)	608	0	0	None
FBGA (1.0-1.27, Pb-free)	2,935	0	0	None
FLIPCHIP CSP (Pb-Free)	648	0	0	None
PBGA (1.27)	458	0	0	None
PBGA (1.27, Pb-free)	58	0	0	None
PBGA (Cavity/Heat Sink)	151	0	0	None
PDIP (Pb-Free)	1,635	0	0	None
PLCC	241	0	0	None
PLCC (Pb-Free)	474	0	0	None
PQFP (Pb-free)	378	0	0	None
QFN (0.4mm, Saw Type, Pb-free)	445	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	380	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	4,861	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	1,081	0	0	None
QFN (Punch Type, Pb-Free)	2,315	0	0	None
QFN (Saw Type, Pb-free)	5,474	0	0	None
QSOP (Pb-Free)	5,679	0	0	None
RTSOP (Pb-free)	160	0	0	None
SNC (Pb-Free)	515	0	0	None
SOIC	218	0	0	None
SOIC (J-Lead)	697	0	0	None
SOIC (J-Lead, Pb-Free)	1,862	0	0	None
SOIC (Pb-Free)	4,471	0	0	None
SSOP	148	0	0	None
SSOP (Pb-Free)	5,119	0	0	None
TQFP	295	0	0	None
TQFP (10mm X 10mm)	314	0	0	None
TQFP (Pb-Free)	2,244	0	0	None
TSOP (Pb-free)	2,234	0	0	None
TSOP I (Pb-Free)	804	0	0	None
TSOP II (Pb-Free)	2,995	0	0	None
TSSOP	889	0	0	None
TSSOP (Pb-Free)	1,568	0	0	None
VFBGA (0.75-0.8, 0.3mm)	456	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	3,755	0	0	None
Grand Total	57,072	0	0.00%	None

3.4 HIGH TEMPERATURE STORAGE (HTS)

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

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

Table 7. High Temperature Storage Failure Rate Summary

Package	Sample Size	# Failed	Defects %	Failure Mode
FBGA (0.75-0.8, 0.3mm, Pb-free)	408	0	0	None
FBGA (1.0-1.27)	500	0	0	None
FBGA (1.0-1.27, Pb-free)	882	0	0	None
PBGA (1.27)	220	0	0	None
PBGA (1.27, Pb-free)	60	0	0	None
PBGA (Cavity/Heat Sink)	160	0	0	None
PDIP (Pb-Free)	1,219	0	0	None
PLCC	312	0	0	None
PLCC (Pb-Free)	320	0	0	None
PQFP (Pb-free)	377	0	0	None
QFN (0.4mm, Saw Type, Pb-free)	380	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	380	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	1,078	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	690	0	0	None
QFN (Punch Type, Pb-Free)	1,434	0	0	None
QFN (Saw Type, Pb-free)	1,142	0	0	None
QSOP (Pb-Free)	380	0	0	None
RTSOP (Pb-free)	160	0	0	None
SNC (Pb-Free)	570	0	0	None
SOIC	220	0	0	None
SOIC (J-Lead)	218	0	0	None
SOIC (J-Lead, Pb-Free)	1,178	0	0	None
SOIC (Pb-Free)	3,032	0	0	None
SSOP	120	0	0	None
SSOP (Pb-Free)	2,065	0	0	None
TQFP	140	0	0	None
TQFP (10mm X 10mm)	158	0	0	None
TQFP (Pb-Free)	1,776	0	0	None
TSOP (Pb-free)	1,468	0	0	None
TSOP I (Pb-Free)	458	0	0	None
TSOP II (Pb-Free)	1,088	0	0	None
TSSOP	490	0	0	None
TSSOP (Pb-Free)	975	0	0	None
VFBGA (0.75-0.8, 0.3mm)	380	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	2,413	0	0	None
Grand Total	26,851	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.

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

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

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

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

Similarly, for 140 °C HAST testing,

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

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

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

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



APPENDIX A: FAILURE RATE CALCULATION (cont.)

Failure Rate Calculation

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

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

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

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

where:

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

n = number of failure.

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

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

APPENDIX B: TEMPERATURE CYCLING STRESS MODELS

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

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

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

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

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

Temperature Cycling

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

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

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

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

HAST

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

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

APPENDIX D: RELIABILITY DATA

From: 9/27/2008
To: 09/27/2009

Summary Detail -- EFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
B53	CCD	MR084068	R1	CYRF6936-40LFXC	125	3.8	96	96	299	0		
	MID	MR093068	R1	CYRF6936-40LFXC	125	3.8	96	96	300	0		
	Summary for Technology: B53		2	records					599	0		
Sum												
C9												
	MID	093204	R1	7C1321NC-RZWI	150	3.77	48	48	4695	0		
	MID	093204	R2	7C1321NC-RZWI	150	3.77	48	48	4708	1	093204-2E1	Particle defect (Metal 1 lines shorting)
	MID	093204	R3	7C1321NC-RZWI	150	3.77	48	48	4670	0		
	MID	MR084077	R1	CY7C1041DV33-10ZSXI	150	3.77	48	48	4898	3	MR084077-1E1	Tungsten Short
	MID	MR084077	R2	CY7C1041DV33-10ZSXI	150	3.77	48	48	4829	7	MR084077-2E1	Tungsten Short
	MID	MR084077	R3	CY7C1041DV33-10ZSXI	150	3.77	48	48	5523	1	MR084077-3E1	Tungsten Short
	MID	MR084077	R4	CY7C1041DV33-10ZSXI	150	4.5	48	48	5474	3	MR084077-4E1	Tungsten Short
	MID	MR091067	R1	CY7C1041DV33-10ZSXI	150	3.77	48	48	4916	1	MR091067-1E1	No Visual Defect
	MID	MR091067	R2	CY7C1041DV33-10ZSXI	150	3.77	48	48	3142	0		
	MID	MR092069	R1	CY7C1041DV33-10ZSXIT	150	3.77	48	48	8000	1	MR092069-1E1	NVD
Summary for Technology: C9			10	records					42855	16		
Sum												
L8												
	CCD	064302	R11F	CY2FLEXO-HV	125	3.96	96	96	48	0		
	CCD	064302	R9	CY2FLEXO-HV	125	3.96	96	96	45	0		
	DCD	084102	R1A	CY2545C208	150	3.8	48	48	135	0		
Summary for Technology: L8			3	records					228	0		
Sum												
R8												
	MID	082401	R1	CY62167DV30	125	2.4	96	96	1748	0		
	MID	084907	R1	CY62167D	125	2.4	96	96	1885	0		
	MID	084907	R2	7G62164DK-GZTIB	125	2.4	96	96	1852	0		
	MID	MR083077	R1	7G62162DK-GBZIB	125	2.4	96	96	450	0		
	MID	MR084075	R1	CY62177DV30LL-55BAXIT	125	2.4	96	96	300	0		
	MID	MR091063	R1	CY62157DV30LL-55ZSXI	125	2.4	96	96	299	0		
	MID	MR092066	R1	7G62164DK-GZTIB	125	2.75	96	96	489	0		
Summary for Technology: R8			7	records					7023	0		
Sum												
C8												
	CCD	082609	R1A	CY7C656305-56LFXC	150	3.8	48	48	1000	0		
	CCD	082609	R1B	CY7C656305-56LFXC	125	3.8	96	96	1000	0		
	CCD	082609	R1C	CY7C656305-56LFXC	125	3.8	24	24	1000	0		
	DCD	MR084078	R1	CYWB0124AB-BVXI	125	3.8	96	96	300	0		
	DCD	MR091049	R1	CYWB0124AB-BVXI	125	3.8	96	96	300	0		

Summary for Technology: C8

Sum

S8

CBD	MR093063	R1	CY7C68013A-56PVXC	125	3.8	96	96	300	0
6 records									
								3900	0
MID	071304	R10	7C1404B8BC-**RZWCB	150	3.3	48	48	813	0
MID	072403	R2	CYONS2100-LBXC	40	3.8	168	168	330	0
MID	072403	R2A	CYONS2100-LBXC	125	3.8	72	72	665	0
MID	072403	R3A1	CYONS2110-LBXC	125	3.8	72	72	367	0
CCD	072907	R1	CY8C20566-24PVXI	150	2.1	48	48	375	0
CCD	072907	R1	CY8C20566-24PVXI	150	2.1	48	48	375	0
CCD	072907	R1	CY8C20566-24PVXI	150	2.1	48	48	252	0
MID	082703	R3	7C1408B8BC-GZWIB	150	3.3	12	12	324	0
MID	082703	R4	7C1408B1C	150	3.3	48	48	1233	0
MID	082704	R1A	7C1404B1CC-RZWCB	150	3.6	48	48	45	0
MID	082704	R3B	7C1404E1CC-RZWIB	150	5.5	48	48	50	0
MID	082704	R3C	C1404B6CC-RZWCB	150	3.3	48	48	1557	2
MID	082704	R4	7C1404B1CC-RZWCB	150	0	48	48	1135	0
CCD	083401	R3	CY8C20566-24PVXI	150	2.1	48	48	375	0
CCD	083401	R3	CY8C20566-24PVXI	150	2.1	48	48	375	0
CCD	083401	R3	CY8C20566-24PVXI	150	2.1	48	48	252	0
CCD	083401	R4A	CY8C20566-24PVXI	150	5.75	48	48	45	0
CCD	090301	R1A	CY8C20566-24PVXI	150	2.1	48	48	375	0
CCD	090301	R1A (1)	CY8C20466-24LQXI	150	2.1	48	48	375	0
CCD	090301	R1B	CY8C20566-24PVXI	150	2.1	48	48	375	0
CCD	090301	R1B (1)	CY8C20466-24LQXI	125	2.1	48	48	375	0
CCD	090301	R1C	CY8C20566-24PVXI	150	2.1	48	48	375	0
CCD	090301	R1C (1)	CY8C20466-24LQXI	150	2.1	48	48	375	0
CCD	090301	R2B	CY8C20566-24PVXI	150	2.1	48	48	375	0
CCD	090301	R2B	CY8C20566-24PVXI	150	2.1	48	48	34	0
CCD	090301	R2B (1)	CY8C20466-24LQXI	150	2.1	48	48	375	0
MID	090604	R1	CY7C1401	150	3.6	48	48	50	0
MID	090604	R1	CY7C1401	150	3.3	48	48	1153	0
MID	090604	R2A	7C1404B1CC-RZWCB	150	3.6	48	48	45	0
MID	090604	R3	CY14B101LA	150	3	48	48	688	0
CCD	MR091065	R4	CY8C20466-24LQXI	150	2.1	48	48	1000	0
CCD	MR092077	R1	CY8CTMG200-32LQXIT	150	2.1	48	48	366	0

082704-3CE1

082704-3CE1 -Via Void, not completely filled by W

Summary for Technology: S8

Sum

R95

32 records									
								14904	2
MID	084612	R1	CY62177EV30LL	150	1.85	24	24	4249	0
MID	084612	R2	CY62177EV30LL	150	1.85	24	24	3732	0
MID	084612	R3	CY62177EV30LL	150	1.85	24	24	3298	0
MID	091602	R3	CY62187E	125	1.85	24	24	1411	0
MID	091602	R3	CY62187E	125	1.85	96	72	1403	0
MID	093104	R1	CY62138FV30LL-45ZAXI	125	1.85	48	48	935	0
MID	093104	R2	CY62138FV30LL-45ZAXI	125	1.85	48	48	827	0
MID	093104	R3	CY62138FV30LL-45ZAXI	125	1.85	48	48	812	0
MID	MR091066	R1	CY62167EV30LL-45BVI	125	1.85	96	96	3836	0
MID	MR092047	R1	CY62157ELL-55ZSXE	125	1.85	48	48	80	0
MID	MR092047	R2	CY62157ELL-55ZSXE	125	1.85	48	48	79	0

MID	MR092047	R3	CY62157ELL-55ZSXET	125	1.85	48	48	80	0		
MID	MR092067	R1	CY62157EV30LL-45ZSXI	125	1.85	96	96	6234	0		
Summary for Technology: R95				13 records							
Sum								26976	0		
R9											
MID	083601	R1	CY1512V18-200BZXC	125	2.25	96	96	590	0		
CCD	083901	R1	7C1312YC-GBBCB	125	2.7	96	96	518	0		
CCD	083901	R1A	7C1312YC-GBBCB	125	2.7	96	96	522	0		
MID	083906	R2	CY7C1313	125	2.25	96	96	1797	0		
MID	084502	R1	CY7C1370D	150	2.25	24	24	7233	1	084502-1E1	TUNGSTEN DEFECT
MID	084502	R1	CY7C1370D	150	2.25	48	24	7213	0		
MID	084502	R1A	CY7C1370FC	150	2.25	24	24	1594	0		
MID	084502	R1A	CY7C1370FC	150	2.25	48	24	1585	0		
MID	084502	R2	CY7C1370FC	150	2.25	24	24	1433	0		
MID	084502	R2	CY7C1370FC	150	2.25	48	24	1432	0		
MID	084612	R1	CY62177EV30LL	150	1.85	24	24	4249	0		
MID	084612	R2	CY62177EV30LL	150	1.85	24	24	3732	0		
MID	084612	R3	CY62177EV30LL	150	1.85	24	24	3298	0		
MID	090704	R4	7C15121YC-**GBBCB	150	2.7	96	96	1569	0		
MID	091602	R3	CY62187E	125	1.85	24	24	1411	0		
MID	091602	R3	CY62187E	125	1.85	96	72	1403	0		
MID	093104	R1	CY62138FV30LL-45ZAXI	125	1.85	48	48	935	0		
MID	093104	R2	CY62138FV30LL-45ZAXI	125	1.85	48	48	827	0		
MID	093104	R3	CY62138FV30LL-45ZAXI	125	1.85	48	48	812	0		
MID	MR091069	R1	7C1480BC-RAZCB	150	2.25	48	48	3484	2	MR091069-1E1	Particle Defect (Metal 1 lines shorting)
MID	MR092068	R1	CY7C1313TV18-250BZC	125	2.7	96	96	1922	1	MR092068-1E1	NVD
MID	MR092068	R2	CY7C1313TV18-250BZC	125	2.7	96	96	1669	0		
Summary for Technology: R9				22 records							
Sum								42153	4		
R7											
MID	MR084083	R1	7A132101GC-RZWEB	150	2.3	24		10909	0		
Summary for Technology: R7				1 records							
Sum								10909	0		
S4											
CCD	075103	R2	CY8CLED04DOCD1-56ES	125	38	96		591	0		
CCD	075103	R2(1)	CY8CLED04DOCD1-56ES	125	5.5	96	96	573	0		
CCD	075103	R3	CY8CLED04D01-56LTXI	125	5.5	96	96	540	0		
CCD	075103	R5	CY8CPWR01-56TXI	125	5.5	96	96	366	0		
CCD	081805	R1B	CY8C21534-24PVXI	125	5.5	96	96	997	0		
CCD	081805	R1C	CY8C21534-24PVXI	125	5.5	96	96	956	0		
CCD	081805	R2	CY8C21534-24PVXI	125	5.5	96	96	1880	0		
DCD	083908	R1A	CY241V08KSXC-41	150	3.8	48	48	500	0		
DCD	083908	R1B	CY241V8AKSXC-45	150	3.8	48	48	500	0		
DCD	083908	R1C	CY241V8AKSXC-45	150	3.8	48	48	500	0		
MID	090405	R4	CY8C24894-24LFXA	125	5.5	48	48	3496	0		
MID	090405	R5	CY8C24894-24LFXA	125	5.5	48	48	3515	0		
MID	090405	R6	CY8C24894-24LFXA	125	5.5	48	48	3495	0		
CCD	090702	R1	CY8C27443-24PVXI	125	5.75	96	96	1500	0		
CCD	090703	R1	CY8C27443-24PVXIES	125	5.75	96	96	1500	0		

CCD	090802	R1A	CY8C20634	125	5.5	96	96	778	0
CCD	090802	R2A	CY8C20634	125	5.5	96	96	762	0
CCD	091305	R1	CY8C27443-24PVXI	125	5.5	120	120	797	0
CCD	092901	R1	CY8C205344-12PVXI	125	5.5	96	96	3276	0
CCD	93003	R1A	CY8C28433-24PVXIES	125	5.25	96	96	573	0
CCD	093003	R1B	CY8C28433-24PVXIES	125	5.25	96	96	588	0
CCD	093003	R1C	CY8C28433-24PVXIES	125	5.25	96	96	566	0
DCD	093801	R1	CY8CLED04D01-56LTXI	125	5.5	96	96	1610	0
MID	MR083075	R1	CY8C26443-24PVXI	125	5.5	96	96	299	0
MID	MR083076	R1	CY8C24423A-12PVXE	125	5.5	48	48	2112	0
MID	MR083076	R1A	CY8C24423A-12PVXE	125	5.5	48	48	638	0
MID	MR083076	R1B	CY8C24423A-12PVXE	125	5.5	48	48	1018	0
MID	MR083076	R2	CY8C24423A-12PVXE	125	5.5	48	49	2111	0
MID	MR083076	R2	CY8C24423A-12PVXE	125	5.5	48	48	2111	0
MID	MR083076	R2A	CY8C24423A-12PVXE	125	5.5	48	48	1385	0
CCD	MR084051	R1	CY8C26443-24PVXIT	125	5.5	96	96	300	0
CCD	MR084076	R1	CS6835AT	125	5.5	96	96	294	0
CCD	MR091047	R1	CY8C21334-24PVXI	125	5.5	96	96	300	0
CCD	MR091048	R1	CY8C24223A-24PVXI	125	5.5	96	96	299	0
DCD	MR091064	R1	CY25100KSXCF	150	3.8	48	48	1497	0
CCD	MR092046	R1	CY8C24533-24PVXI	125	5.5	96	96	300	0
CCD	MR093048	R1	CY8C21534-24PVXI	125	5.5	96	96	259	0
CCD	MR092073	R1	CY8C21334-24PVXI	125	5.5	96	97	285	0

Summary for Technology: S4

Sum	40 records							43067	0
0.25um									

MID	080304	R1	CYIL1SM4000AA-GDCES	150	2.5	48	49	89	0
MID	MR092078	R1	STK14CA8-RF45	125	3.6	96	96	100	0
MID	MR093039	R1	STK14CA8-RF45	125	3.6	96	96	100	0

Summary for Technology: 0.25um

Sum	3 records							289	0
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Summary Detail -- LFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
B53	CCD	MR083072	R1	CYRF6936-40LFXC	125	3.8	1048	880	100	0		
	CCD	MR083072	R1	CYRF6936-40LFXC	125	3.8	1072	904	3	0		
	CCD	MR083072	R2	CYRF6936-40LFXC	125	3.8	168	72	196	0		
	CCD	MR083072	R2	CYRF6936-40LFXC	125	3.8	1048	880	196	0		
	CCD	MR083072	R2	CYRF6936-40LFXC	125	3.8	1072	904	4	0		
	CCD	MR084068	R1	CYRF6936-40LFXC	125	3.8	168	72	297	0		
	CCD	MR084068	R1	CYRF6936-40LFXC	125	3.8	1000	832	296	0		
Summary for Technology: B53				7 records								
Sum										1092	0	
L8	CCD	064302	R11	CY2FLEXO-LV	125	2.35	168	72	624	0		
	CCD	064302	R11	CY2FLEXO-LV	125	2.35	1000	832	624	0		
	CCD	064302	R9A	CY2FLEXO-LV	125	2.35	168	72	116	0		
	CCD	064302	R9A	CY2FLEXO-LV	125	2.35	1000	832	116	0		
	DCD	084102	R1E	CY2545C208	150	2.07	80	32	116	0		
	DCD	084102	R1E	CY2545C208	150	2.07	500	420	116	0		
Summary for Technology: L8				5 records								
Sum										1088	0	
R8	MID	082401	R1	CY62167DV30	125	2.4	1024	856	178	0		
	MID	082401	R1	CY62167DV30	125	2.4	168	72	178	0		
	MID	082401	R2	CY62167DV	125	2.4	168	72	177	0		
	MID	084907	R1	CY62167D	125	2.4	168	72	200	0		
	MID	084907	R2	7G62164DK-GZTIB	125	2.4	168	72	200	0		
	MID	MR083055	R1	CY62177DV30LL-55BAXI	125	2.4	1000	832	299	0		
	MID	MR083077	R1	7G62162DK-GBZIB	125	2.4	1000	832	296	0		
	MID	MR083077	R1	7G62162DK-GBZIB	125	2.4	1024	856	1	0		
	MID	MR083077	R1	7G62162DK-GBZIB	125	2.4	168	72	299	0		
	MID	MR084075	R1	CY62177DV30LL-55BAXIT	125	3.8	168	72	300	0		
	MID	MR084075	R1	CY62177DV30LL-55BAXIT	125	3.8	1000	832	300	0		
	MID	MR091063	R1	CY62157DV30LL-55ZSXI	125	2.4	168	72	299	0		
	MID	MR091063	R1	CY62157DV30LL-55ZSXI	125	2.4	1000	832	299	0		
Summary for Technology: R8				13 records								
Sum										3026	0	
C8	DCD	072404	R3C	CYWB0124AB-BVXI	125	3.8	1000	1000	59	0		
	CCD	082609	R1A	CY7C656305-56LFXC	150	3.8	80	32	180	0		
	CCD	082609	R1A	CY7C656305-56LFXC	150	3.8	500	420	180	0		
	DCD	MR083054	R1	CG6882AMT	125	3.8	1000	832	299	0		
	DCD	MR084078	R1	CYWB0124AB-BVXI	125	3.8	168	72	300	0		
	DCD	MR084078	R1	CYWB0124AB-BVXI	125	3.8	1000	832	300	0		
	DCD	MR091049	R1	CYWB0124AB-BVXI	125	3.8	168	72	300	0		
	DCD	MR091049	R1	CYWB0124AB-BVXI	125	3.8	1000	832	300	0		
	DCD	MR092065	R1	CYWB0224ABS-BVXI	125	3.8	168	72	297	0		
	CBD	MR093063	R1	CY7C68013A-56PVXC	125	3.8	168	72	300	0		
	CBD	MR093063	R1	CY7C68013A-56PVXC	125	3.8	1000	832	300	0		

Summary for Technology: C8

10 records

Sum									2815	0
C9										
	MID	MR083057	R1	CY7C1041DV33-10ZSXI	150	3.77	80	32	498	0
	MID	MR083057	R1	CY7C1041DV33-10ZSXI	150	3.77	500	420	495	0
	MID	MR092069	R1	CY7C1041DV33-10ZSXIT	150	3.77	80	32	500	0
	MID	MR092069	R1	CY7C1041DV33-10ZSXIT	150	3.77	500	440	50	0

Summary for Technology: C9

4 records

Sum									1543	0
R9										
	MID	083601	R1	CY1512V18-200BZXC	125	2.25	168	72	119	0
	MID	083910	R1	7A62147FC-RZWEB	125	1.85	1000	832	80	0
	MID	084612	R1	CY62177EV30LL	150	1.85	432	408	100	0
	MID	084612	R2	CY62177EV30LL	150	1.85	432	408	99	0
	MID	084612	R3	CY62177EV30LL	150	1.85	432	408	100	0
	MID	091602	R3	CY62187E	125	1.85	168	72	400	0
	MID	093104	R1	CY62138FV30LL-45ZAXI	150	2.2	408	408	85	0
	MID	093104	R2	CY62138FV30LL-45ZAXI	150	2.2	408	408	85	0
	MID	093104	R3	CY62138FV30LL-45ZAXI	150	2.2	408	408	85	0
	MID	MR073028	R1	CY7C1313BV18-250BZC	125	2.25	1024	856	30	0
	MID	MR082068	R1	CY7C1347G-133AXC	150	2.25	500	420	299	0
	MID	MR083068	R1	CY62157EV30LL-45ZSXI	125	1.85	168	72	499	0
	MID	MR083068	R1	CY62157EV30LL-45ZSXI	125	1.85	1000	832	499	0
	MID	083601	R1	CY1512V18-200BZXC	125	2.25	1000	832	119	0

Summary for Technology: R9

14 records

Sum									2599	0
S8										
	MID	071304	R10	7C1404B8BC-**RZWCB	150	3.3	80	32	119	0
	MID	071304	R8A	CY14B104L	150	2.7	500	420	119	0
	MID	071304	R9	7C1404B6BC-**RZWCB	150	2.7	500	420	120	0
	MID	072403	R1A	CYONS2001-LBXC	125	3.8	180	84	225	0
	MID	072403	R1A	CYONS2001-LBXC	125	3.8	300	120	224	0
	MID	072403	R2A	CYONS2100-LBXC	125	3.8	180	84	448	0
	MID	072403	R3A	CYONS2110-LBXC	125	3.8	180	84	225	0
	MID	072403	R3A	CYONS2110-LBXC	125	3.8	300	120	225	0
	MID	082703	R3	7C1408B8BC-GZWIB	150	3.3	500	420	114	0
	MID	082703	R3	7C1408B8BC-GZWIB	150	3.3	80	32	119	0
	MID	082703	R4	7C1408B1C	150	3.3	500	420	240	0
	MID	082703	R4	7C1408B1C	150	3.3	80	32	240	0
	MID	082704	R1A	C1404B1CC-RZWCB	150	3.3	500	420	118	0
	MID	082704	R1A	C1404B1CC-RZWCB	150	3.3	80	32	118	0
	MID	082704	R3A	7C1404B6CC-RZWCB	150	3.3	500	420	147	0
	MID	082704	R3A	7C1404B6CC-RZWCB	150	3.3	80	32	148	0
	MID	082704	R3C	7C1404B6CC-RZWCB	150	3.3	500	420	186	0
	MID	082704	R3C	7C1404B6CC-RZWCB	150	3.3	80	32	186	0
	MID	082704	R4	7C1404B1CC-RZWCB	150	0	500	420	119	0
	MID	082704	R4	7C1404B1CC-RZWCB	150	0	80	32	120	0
	CCD	083401	R2	CY8C20466-24LQXI	150	2.1	500	420	390	0
	CCD	083401	R2	CY8C20466-24LQXI	150	2.1	80	32	390	0
	CCD	083401	R4	CY8C20466-24LQXI	150	2.1	500	420	390	0
	CCD	083401	R4	CY8C20466-24LQXI	150	2.1	80	32	390	0

CCD	083401	R5A	CY8C20466-24LQXI	150	2.1	500	420	390	0
CCD	083401	R5A	CY8C20466-24LQXI	150	2.1	80	32	390	0
CCD	084605	R2	CY8C20566-24PVXI	150	2.1	80	32	390	0
CCD	090301	R1A	CY8C20566-24PVXI	150	2.1	80	32	120	0
CCD	090301	R1A	CY8C20566-24PVXI	150	2.1	395	315	60	0
CCD	090301	R1A	CY8C20566-24PVXI	150	2.1	500	105	60	0
CCD	090301	R1A (1)	CY8C20466-24LQXI	150	2.1	80	32	60	0
CCD	090301	R1A (1)	CY8C20466-24LQXI	150	2.1	184	104	60	0
CCD	090301	R1A (1)	CY8C20466-24LQXI	150	2.1	524	340	60	0
CCD	090301	R1B	CY8C20566-24PVXI	150	2.1	80	32	60	0
CCD	090301	R1B	CY8C20566-24PVXI	150	2.1	247	167	60	0
CCD	090301	R1B	CY8C20566-24PVXI	150	2.1	500	253	60	0
CCD	090301	R1B (1)	CY8C20466-24LQXI	150	2.1	80	32	60	0
CCD	090301	R1B (1)	CY8C20466-24LQXI	150	2.1	184	104	60	0
CCD	090301	R1C	CY8C20566-24PVXI	150	2.1	80	32	60	0
CCD	090301	R1C	CY8C20566-24PVXI	150	2.1	395	315	60	0
CCD	090301	R1C	CY8C20566-24PVXI	150	2.1	500	105	60	0
CCD	090301	R1C (1)	CY8C20466-24LQXI	150	2.1	80	32	60	0
CCD	090301	R1C (1)	CY8C20466-24LQXI	150	2.1	184	104	60	0
MID	090604	R1	CY7C1401	150	3.3	500	420	120	0
MID	090604	R1	CY7C1401	150	3.3	80	32	120	0
MID	090604	R2A	7C1404B1CC-RZWCB	150	3.3	500	420	118	0
MID	090604	R2A	7C1404B1CC-RZWCB	150	3.3	80	32	118	0
CCD	MR091065	R5	CY8C20466-24LQXI	150	2.1	500	420	375	0
CCD	MR091065	R5	CY8C20466-24LQXI	150	2.1	80	32	392	0
CCD	MR092077	R1	CY8CTMG200-32LQXIT	150	2.1	500	420	366	0
CCD	MR092077	R1	CY8CTMG200-32LQXIT	150	2.1	80	32	366	0

Summary for Technology: S8

51 records

Sum

9285

0

S4

CCD	075103	R2	CY8CLED04DOCD1-56ES	125	38	168	72	587	0
CCD	075103	R2	CY8CLED04DOCD1-56ES	125	38	1000	832	210	0
CCD	075103	R2	CY8CLED04DOCD1-56ES	125	38	500	420	210	0
CCD	075103	R3	CY8CLED04D01-56LTXI	125	5.5	168	72	538	0
CCD	075103	R3	CY8CLED04D01-56LTXI	125	5.5	1000	832	210	0
CCD	075103	R3	CY8CLED04D01-56LTXI	125	5.5	500	420	210	0
CCD	075103	R4	CY8CLED04G01-56LTXI	125	5.5	420	324	207	0
CCD	075103	R4	CY8CLED04G01-56LTXI	125	5.5	1000	580	207	0
CCD	081805	R1B	CY8C21534-24PVXI	125	5.5	168	72	188	0
CCD	081805	R1B	CY8C21534-24PVXI	125	5.5	1000	832	188	0
CBD	082201	R1	CY8C22545-24AXI	125	5.5	168	72	120	0
CBD	082201	R1	CY8C22545-24AXI	125	5.5	1000	832	120	0
DCD	082406	R1	CY22389KFZXC	150	3.8	500	420	120	0
DCD	082406	R1	CY22389KFZXC	150	3.8	80	32	80	0
DCD	083908	R1A	CY241V08KSXC-41	150	3.8	500	420	116	0
DCD	083908	R1A	CY241V08KSXC-41	150	3.8	80	32	116	0
CCD	090802	R1A	CY8C20634	125	5.5	168	72	120	0
CCD	090802	R2A	CY8C20634	125	5.5	168	72	120	0
CCD	093003	R1A	CY8C28433-24PVXIES	125	5.25	168	72	60	0
CCD	093003	R1B	CY8C28433-24PVXIES	125	5.25	168	72	60	0
CCD	093003	R1C	CY8C28433-24PVXIES	125	5.25	168	72	60	0

CCD	MR083046	R1	CY8C24223A-24PVXI	125	5.5	1000	832	298	0
CCD	MR083056	R1	CY8C244235A-24PVXIES	125	5.5	1000	832	997	0
CCD	MR083056	R1	CY8C244235A-24PVXIES	125	5.5	1024	856	1	0
CCD	MR083067	R1	CY8C21534-12PVXE	125	5.5	1000	832	500	0
CCD	MR083075	R1	CY8C26443-24PVXI	125	5.5	168	72	299	0
CCD	MR083075	R1	CY8C26443-24PVXI	125	5.5	1000	832	299	0
CCD	MR083076	R2	CY8C24423A-12PVXE	125	5.5	1000	832	500	0
CCD	MR084048	R1	CY8C24423A-24PVXI	125	5.5	192	96	296	0
CCD	MR084048	R1	CY8C24423A-24PVXI	125	5.5	1000	832	295	0
CCD	MR084051	R1	CY8C26443-24PVXIT	125	5.5	1000	832	300	0
CCD	MR084051	R1	CY8C26443-24PVXIT	125	5.5	168	72	300	0
CCD	MR084076	R1	CS6835AT	125	5.5	1000	832	293	0
CCD	MR084076	R1	CS6835AT	125	5.5	168	72	293	0
CCD	MR091047	R1	CY8C21334-24PVXI	125	5.5	1000	832	296	0
CCD	MR091047	R1	CY8C21334-24PVXI	125	5.5	168	72	296	0
CCD	MR091048	R1	CY8C24223A-24PVXI	125	5.5	1000	832	299	0
CCD	MR091048	R1	CY8C24223A-24PVXI	125	5.5	168	72	299	0
DCD	MR091064	R1	CY25100KSXCF	150	3.8	500	420	453	0
DCD	MR091064	R1	CY25100KSXCF	150	3.8	80	32	454	0
CCD	MR092046	R1	CY8C24533-24PVXI	125	5.5	1000	832	295	0
CCD	MR092046	R1	CY8C24533-24PVXI	125	5.5	168	72	300	0
Summary for Technology: S4			42 records						
Sum									10623
0.25um									0
MID	080304	R1	CYIL1SM4000AA-GDCES	150	2.5	500	420	88	0
MID	MR092078	R1	STK14CA8-RF45	125	3.6	168	72	100	0
Summary for Technology: 0.25um			2 records						
Sum									88
R7									0
MID	MR083070	R1	CY7C1021CV33-10ZXC	150	2.3	1012	844	298	0
MID	MR083070	R1	CY7C1021CV33-10ZXC	150	2.3	512	432	298	0
MID	MR084083	R1	7A132101GC-RZWEB	150	2.3	408	408	500	0
Summary for Technology: R7			3 records						
Sum									1096
R95									0
MID	083910	R1	7A62147FC-RZWEB	125	1.85	1000	832	80	0
MID	084612	R1	CY62177EV30LL	150	1.85	432	432	100	0
MID	084612	R2	CY62177EV30LL	150	1.85	432	432	99	0
MID	084612	R3	CY62177EV30LL	150	1.85	432	432	100	0
MID	091602	R3	CY62187E	125	1.85	168	72	400	0
MID	093104	R1	CY62138FV30LL-45ZAXI	150	2.2	408	408	85	0
MID	093104	R2	CY62138FV30LL-45ZAXI	150	2.2	408	408	85	0
MID	093104	R3	CY62138FV30LL-45ZAXI	150	2.2	408	408	85	0
MID	MR083068	R1	CY62157EV30LL-45ZSXI	125	1.85	1000	832	499	0
MID	MR083068	R1	CY62157EV30LL-45ZSXI	125	1.85	168	72	499	0
Summary for Technology: R95			10 records						
Sum									2032
									0

Summary Detail -- DRET Performance Over Time

S4	TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
		CCD	075103	R1A	CY8CLED04D0CD1-56ES	150	0	1000	500	90	0		
		CCD	075103	R2A	CY8CLED04DOCD1-56ES	150	0	1000	500	82	0		
		CCD	075103	R2A	CY8CLED04DOCD1-56ES	150	0	500	500	82	0		
		CCD	075103	R4	CY8CLED04G01-56LTXI	150	0	1000	500	80	0		
		CCD	075103	R4	CY8CLED04G01-56LTXI	150	0	500	500	80	0		
		CCD	075103	R5	CY8CPWR01-56TXI	150	0	1000	500	80	0		
		CCD	075103	R5	CY8CPWR01-56TXI	150	0	500	500	80	0		
		CCD	082001	R1	CY8C294665-24PVXI	150	0	1000	500	80	0		
		CCD	082001	R1	CY8C294665-24PVXI	150	0	500	500	80	0		
		CBD	082201	R1	CY8C22545-24AXI	150	0	1000	500	85	0		
		CBD	082201	R1	CY8C22545-24AXI	150	0	500	500	85	0		
		CCD	083201	R1	CY7C63813-PXC	150	0	1000	500	77	0		
		CCD	083201	R1	CY7C63813-PXC	150	0	500	500	77	0		
		DCD	083406	R1	7C638115AK-RAPZC	150	0	1000	500	77	0		
		DCD	083406	R1	7C638115AK-RAPZC	150	0	500	500	77	0		
		MID	090405	R1	CY8C24894-24LFXI	150	0	1008	508	80	0		
		CCD	090702	R1	CY8C27443-24PVXI	150	0	1000	500	77	0		
		CCD	090702	R1	CY8C27443-24PVXI	150	0	500	500	77	0		
		CCD	090703	R1	CY8C27443-24PVXIES	150	0	500	500	77	0		
		CCD	090703	R1A	CY8C27443-24PVXIES	175	0	408	120	77	0		
		CCD	092107	R20	CY8C24494-24PVXI	150	0	1000	500	80	0		
		CCD	092107	R20	CY8C24494-24PVXI	150	0	524	524	80	0		
		CCD	092107	R20A	CY8C24494-24PVXI	150	0	1000	500	80	0		
		CCD	092107	R20A	CY8C24494-24PVXI	150	0	524	524	80	0		
		CCD	MR083046	R1	CY8C24223A-24PVXI	150	0	1000	500	80	0		
		CCD	MR083056	R1A	CY7C64215-28PVXC	150	0	1000	500	80	0		
		CCD	MR083056	R1A	CY7C64215-28PVXC	175	0	408	408	80	0		
		MID	MR083075	R1	CY8C26443-24PVXI	150	0	1000	500	80	0		
		MID	MR083075	R1	CY8C26443-24PVXI	175	0	288	288	80	0		
		MID	MR083075	R1	CY8C26443-24PVXI	175	0	408	120	80	0		
		MID	MR083075	R1	CY8C26443-24PVXI	150	0	500	500	80	0		
		CCD	MR084051	R1	CY8C26443-24PVXIT	150	0	1000	500	80	0		
		CCD	MR084051	R1	CY8C26443-24PVXIT	150	0	500	500	80	0		
		CCD	MR084076	R1	CS6835AT	150	0	1000	500	80	0		
		CCD	MR084076	R1	CS6835AT	175	0	288	288	80	0		
		CCD	MR084076	R1	CS6835AT	175	0	408	120	80	0		
		CCD	MR084076	R1	CS6835AT	150	0	500	500	80	0		
		CCD	MR084076	R1	CS6835AT	150	0	737	237	80	0		
		CCD	MR091047	R1	CY8C21334-24PVXI	150	0	1000	500	62	0		
		CCD	MR091047	R1	CY8C21334-24PVXI	175	0	288	288	80	0		
		CCD	MR091047	R1	CY8C21334-24PVXI	175	0	408	120	80	0		
		CCD	MR091047	R1	CY8C21334-24PVXI	150	0	500	500	62	0		
		CCD	MR091048	R1	CY8C24223A-24PVXI	150	0	1000	500	80	0		
		CCD	MR091048	R1	CY8C24223A-24PVXI	175	0	288	288	80	0		
		CCD	MR091048	R1	CY8C24223A-24PVXI	175	0	408	120	80	0		
		CCD	MR091048	R1	CY8C24223A-24PVXI	150	0	500	500	80	0		

CCD	MR092046	R1	CY8C24533-24PVXI	150	0	1000	500	79	0
CCD	MR092046	R1	CY8C24533-24PVXI	175	0	288	288	80	0
CCD	MR092046	R1	CY8C24533-24PVXI	175	0	408	120	80	0
CCD	MR092046	R1	CY8C24533-24PVXI	150	0	500	500	80	0
CCD	RR092006	R1	CP6659AMT	150	0	12	12	32	0
CCD	RR092006	R2	CP6801ATT	150	0	12	12	40	0
CCD	RR092006	R3	CY8C21534-24PVXAT	150	0	12	12	47	0
CCD	RR093008	R1	CY8CTMA120-56LFXA	150	0	12	12	30	0
CCD	RR093008	R2	CY8CTMG120-56LFXA	150	0	12	12	30	0

Summary for Technology: S4

Sum

S8

55 records

4142 0

MID	071304	R11A	7C1404B8BC-**RZWCB	150	0	1000	500	80	0
MID	071304	R11A	7C1404B8BC-**RZWCB	150	0	500	500	80	0
MID	071304	R12A	7C1404B8BC-**RZWC	150	0	1000	500	80	0
MID	071304	R12A	7C1404B8BC-**RZWC	150	0	500	500	80	0
MID	072403	R1	CYONS2001-LBXC	150	0	1000	500	77	0
MID	072403	R1	CYONS2001-LBXC	150	0	168	168	77	0
MID	072403	R1	CYONS2001-LBXC	150	0	500	500	77	0
MID	072403	R2	CYONS2100-LBXC	150	0	1000	500	76	0
MID	072403	R2	CYONS2100-LBXC	150	0	500	500	77	0
MID	072403	R3	CYONS2110-LBXC	150	0	1000	500	74	0
MID	072403	R3	CYONS2110-LBXC	150	0	168	168	76	0
MID	072403	R3	CYONS2110-LBXC	150	0	500	500	74	0
MID	082703	R4	7C1408B1C	150	0	500	500	77	0
MID	082704	R1	CY7C1404B	150	0	1000	500	80	0
MID	082704	R1	CY7C1404B	150	0	500	500	80	0
MID	082704	R3A	7C1404B6CC-RZWCB	150	0	1000	500	80	0
MID	082704	R3A	7C1404B6CC-RZWCB	150	0	500	500	80	0
CCD	083401	R1	CY8C20466A	150	0	1000	500	76	0
CCD	083401	R2	CY8C20466-24LQXI	150	0	1000	500	77	0
CCD	083401	R4	CY8C20466-24LQXI	150	0	1000	500	78	0
CCD	083401	R4	CY8C20466-24LQXI	150	0	168	168	78	0
CCD	083401	R4	CY8C20466-24LQXI	150	0	400	400	78	0
CCD	083401	R4	CY8C20466-24LQXI	150	0	500	500	78	0
CCD	083401	R4A	CY8C20566-24PVXI	150	0	1000	500	75	0
CCD	083401	R4A	CY8C20566-24PVXI	150	0	1500	500	69	0
CCD	083401	R4A	CY8C20566-24PVXI	150	0	168	168	77	0
CCD	083401	R4A	CY8C20566-24PVXI	150	0	400	400	77	0
CCD	083401	R4A	CY8C20566-24PVXI	150	0	500	500	77	0
CCD	083401	R4A	CY8C20566-24PVXI	150	0	609	609	75	0
CCD	083401	R5	CY8C20566-24PVXI	150	0	1000	500	78	0
CCD	083401	R5	CY8C20566-24PVXI	150	0	500	500	78	0
CCD	084605	R1	CY8C20566-24PVXI	150	0	168	168	77	0
CCD	084605	R2	CY8C20566-24PVXI	150	0	1000	500	80	0
CCD	084605	R2	CY8C20566-24PVXI	150	0	1500	500	80	0
CCD	084605	R2	CY8C20566-24PVXI	150	0	2000	500	80	0
CCD	084605	R2	CY8C20566-24PVXI	150	0	500	500	80	0
CCD	084605	R3	CY8C20566-24PVXI	150	0	1000	500	80	0
CCD	084605	R3	CY8C20566-24PVXI	150	0	1500	500	80	0
CCD	084605	R3	CY8C20566-24PVXI	150	0	2000	500	80	0

CCD	084605	R3	CY8C20566-24PVXI	150	0	500	500	80	0
DCD	090402	R1	CYONS2000-LBXC	150	0	1000	500	77	0
DCD	090402	R1	CYONS2000-LBXC	150	0	500	500	77	0
MID	090604	R1	CY7C1401	150	0	1000	500	79	0
MID	090604	R1	CY7C1401	150	0	1500	500	79	0
MID	090604	R1	CY7C1401	150	0	500	500	80	0
MID	090604	R2	7C1404B1CC-RZWCB	150	0	1000	500	80	0
MID	090604	R2	7C1404B1CC-RZWCB	150	0	500	500	80	0
47 records									
									</

FROM: 9/27/2008
TO: 09/27/2009

Summary Detail -- HAST Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
FBGA (0.75-0.8, 0.3mm)											
BA48CRALE	T-OSE	MR082018	R1	CY62137CVSL-70BAI	110	3.6	264	80	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm)				1	records						
Sum								80	0		
FBGA (0.75-0.8, 0.3mm, Pb-free)											
BK48DJALL	G	MR083050	R1	CY62177DV30LL-55BAXI	130	3.6	128	25	0		
BK48DQBL	G	MR084056	R1	CG7081AM	110	3.6	264	23	0		
BK48CDGLL	G	MR091060	R1	CY7C1041CV33-10BAXA	110	3.65	264	25	0		
BK48CDGLL	G	MR092042	R1	CY7C1041CV33-10BAXAT	110	3.65	264	25	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)				4	records						
Sum								98	0		
FBGA (1.0-1.27)											
BB165BUALE	G	091706	R3A	CY7C1512KV18-*BZCES	130	2.05	128	71	0		
BB165BUALE	G	091706	R3A	CY7C1512KV18-*BZCES	130	2.05	256	68	0		
Summary for Package Family: FBGA (1.0-1.27)				1	records						
Sum								68	0		
FBGA (1.0-1.27, Pb-free)											
BW165AZALL	AT	083601	R1	CY1512V18-200BZXC	110	1.98	264	77	0		
BW165AZALL	AT	083601	R2	CY7C1512V18-200BZXC	130	1.98	264	74	0		
BW165BJALL	G	091706	R2A	CY7C1512KV18-*BZCES	130	1.98	128	78	0		
BW165BJALL	G	091706	R2A	CY7C1512KV18-*BZCES	130	1.98	256	77	0		
Summary for Package Family: FBGA (1.0-1.27, Pb-free)				4	records						
Sum								306	0		
FLIPCHIP CSP (Pb-Free)											
FN30A	AU	090802	R1	CY8C20634-12FDXIT	130	5.25	96	73	0		
Summary for Package Family: FLIPCHIP CSP (Pb-Free)				1	records						
Sum								73	0		
PDIP (Pb-Free)											
PZ286EAAGN	X	092014	R1	CY62256NLL-70PXC	130	5.5	128	77	0		
PZ183DBGN	RA-CML	MR083022	R1	CY7C63723C-PXC	130	5.5	128	78	0		
PZ243AAAGN	X	MR084028	R1	CY7C63743C-PXC	130	5.5	128	80	0		
PZ283AAAGN	X	MR084031	R1	CY8C27443-24PXI	130	5.25	128	80	0		
PZ183DBGN	RA	MR084050	R1	CS6632AF	130	5.5	128	70	0		
PZ283ACAGL	X	MR091039	R1	CY7C199CN-15PXC	130	5.5	128	80	0		
PZ283AAAGN	X	MR091044	R1	CG6993AM	130	5.25	128	25	0		
PZ283AAAGN	X	MR092030	R1	CY8C24423A-24PXI	130	5.25	128	25	0		

PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	130	5.5	128	25	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	130	5.5	128	30	0
Summary for Package Family: PDIP (Pb-Free)			10	records					
Sum								570	0
PLCC									
J32RBGAAGB	X	MR083024	R1A	CY7B991V-5JIT	130	3.6	128	40	0
Summary for Package Family: PLCC			1	records					
Sum								40	0
PLCC (Pb-Free)									
JZ28SBGAN	M	MR091037	R1	CY7B933-JXC	130	5.5	128	25	0
Summary for Package Family: PLCC (Pb-Free)			1	records					
Sum								25	0
QFN (0.4mm, Saw Type, Pb-free)									
LN32AAAAAL	CA-THAILAND	MR083049	R1	CP7052ATT	130	5.25	128	25	0
LN32AAAAAL	CA	MR084040	R1	CP7052ATT	130	5.25	128	24	0
LN32AAAAAL	CA	MR091052	R1	CP7052BTT	130	5.25	128	23	0
LN32AAAAAL	CA	MR092048	R1	CP7052BTT	130	5.25	128	25	0
Summary for Package Family: QFN (0.4mm, Saw Type, 4 Pb-free)			4	records					
Sum								97	0
QFN (0.6mm, Punch Type, Pb-Free)									
LK32AABAG	L	MR084008	R1	CY8C20434-12LKXI	130	5.25	128	25	0
LK32AABAGL	L	MR091011	R1	CY8C20434-12LKXIT	130	5.25	128	25	0
LK32AABAGL	L	MR092044	R1	CY8C20434-12LKXIT	130	5.25	128	25	0
Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)			3	records					
Sum								75	0
QFN (0.6mm, Saw Type, Pb-Free)									
LQ32DAGLL	CA	083401	R2	CY8C20466-24LQXI	130	5.25	128	77	0
LQ32DAGLL	CA	083401	R2	CY8C20466-24LQXI	130	5.25	256	77	0
LQ32DAGLL	CA	083401	R4	CY8C20466-24LQXI	130	5.25	128	77	0
LQ32ACAAGL	MB	083909	R1	CY8C204345-12LQXI	130	5.25	128	77	0
LQ32ACAAGL	MB	083909	R2	CY8C204345-12LQXI	130	5.25	128	77	0
LQ24AAAAAL	RA	084602	R4	CY8C20324-12LQXI	130	5.25	128	39	0
LQ24AAAAAL	RA	084602	R4	CY8C20324-12LQXI	130	5.25	128	40	0
LQ32ACAAGL	M	084609	R1	CY24292LFXI	130	3.63	128	77	0
LQ32DAGLL	CA	090301	R1A (1)	CY8C20466-24LQXI	130	5.25	128	77	0
LQ32DAGLL	CA	090301	R1B (1)	CY8C20466-24LQXI	130	5.25	128	77	0
LQ32DAGLL	CA	090301	R2B (1)	CY8C20466-24LQXI	130	5.25	128	76	0
LQ24ABAAL	AT-THAILAND	MR083053	R1	CY8C20324-12LQXI	130	5.25	128	39	0
LQ24ABAAL	AT	MR084039	R1	CY8C20324-12LQXI	130	5.25	128	5	0
LQ24ABAAL	AT	MR084039	R1	CY8C20324-12LQXI	130	5.25	128	20	0
LQ24ABAAL	AT	MR091040	R1	CP6836ATT	130	5.25	128	24	0
LQ24ABAAL	AT	MR092009	R1	CY8C20324-12LQXI	130	5.25	128	25	0
LQ32DAGLL	CA	MR092054	R1	CY8C20466-24LQXI	130	5.25	128	25	0

LQ32DAGLL	CA	MR093044	R1	CY8C20466-24LQXI	130	5.25	128	27	0
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	130	5.25	128	24	0
Summary for Package Family: QFN (0.6mm, Saw Type, 19 Pb-Free)				records					
Sum								960	0
QFN (COL, 0.6mm, Saw Type, Pb-free)									
LG16AAAAAL	M	084404	R4	CY8C20246-24LKXI	130	5.25	128	30	0
LG16AAAAAL	M-PHILS	MR083048	R1	CY8C20122-LDX2I	130	5.25	128	39	0
LG16AAAAAL	M	MR083048	R1A	CY8C20122-LDX2I	130	5.25	128	40	0
LG16AAAAAL	M	MR084013	R1	CY8C20234-12LKXI	130	5.25	128	40	0
LG16AAAAAL	LG	MR092053	R1	CY8C20180-LDX2I	130	5.25	128	27	0
Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free)				records					
Sum								176	0
QFN (Punch Type, Pb-Free)									
LY56DGAGL	L	090405	R1	CY8C24894-24LFXI	130	5.25	96	77	0
LY56DGAGL	L	090405	R2	CY8C24894-24LFXI	130	5.25	96	77	0
LY56DGAGL	L	090405	R3	CY8C24894-24LFXI	130	5.25	96	77	0
LY68AGABGL	L	MR084009	R1	CS6656AAT	130	5.25	128	54	0
LY68AGABGL	L	MR084009	R1A	CS6656AAT	130	5.25	128	24	0
LY32AAAAGR	L	MR084015	R1	CY8C21434-24LFXI	130	5.25	128	25	0
LY68AGAAGL	L	MR091024	R1	CY8CLED04-68LFXI	130	5.25	128	25	0
LY40ABGAGL	L	MR091030	R1	CS7067AT	130	3.63	128	23	0
LY32AAAAGR	L	MR091032	R1	CS6624AA	130	5.25	128	24	0
LY32AAAAGR	L	MR092041	R1	CY8C21434-24LFXI	130	5.25	128	25	0
LY32AAAAGR	L	MR093017	R1	CP6759AMT	130	5.25	128	30	0
Summary for Package Family: QFN (Punch Type, Pb-Free)				records					
Sum								461	0
QFN (Saw Type, Pb-free)									
LT56ABAAGL	CA-Malaysia	075103	R2(1)	CY8CLED04DOCD1-56ES	130	5.5	128	20	0
LT56ABAAGL	CA	075103	R3	CY8CLED04D01-56LTXI	130	5	128	83	0
LT56ABAAGL	C	075103	R4	CY8CLED04G01-56LTXI	130	5	128	80	0
LT48ABAAGR	CA	083701	R2	CYWUSB6934-48LTXC	130	5	128	77	0
LT48ABAAGR	CA	083701	R3	CYWUSB6934-48LTXC	130	5	128	40	0
LT32BAAGGL	M	083907	R1	CY8C21434-24LTXI	130	5.25	128	77	0
LT32BAAGGL	M	083907	R2	CY8C21434-24LTXI	130	5.25	128	77	0
LT68ABCAGL	AE	084005	R1	CY8C24994-24LTXI	130	5.25	128	80	0
LT68ABCAGL	AE	084005	R2	CY8C24994-24LTXI	130	5.25	128	80	0
LT68ABCAGL	AE	084005	R4	CY8C24994-24LTXI	130	5.25	128	80	0
LT32BBACGL	AE	084007	R1	CY8C21434-24LTXI	130	5.25	128	77	0
LT32BBACGL	AE	084007	R3	CY8C21434-24LTXI	130	5.25	128	77	0
LT32BBACGL	AE	084007	R4	CY8C21434-24LTXI	130	5.25	128	77	0
LT32BBACGL	AE	084007	R6	CY8C21434-24LTXI	130	5.25	128	77	0
LT32BAABGL	RA	092002	R1	CY8C21434-24LTXI	130	5.25	128	75	0

LT32BAAAGL	CA-THAILAND	MR083038	R1	CG7032AA	130	5.25	128	77	0
LT32BAAAGL	CA	MR084041	R1	CG7032AA	130	5.25	128	25	0
LT32BAABGL	RA	MR091009	R1	CG7032AA	130	5.25	128	25	0
LT32BAABGL	RA	MR092034	R1	CY8C21434-24LTXI	130	5.25	128	25	0
LT32BAAGGL	M	MR092051	R1	CG6644FA	130	5.25	128	27	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	130	5.25	128	30	0
Summary for Package Family: QFN (Saw Type, Pb-free)			21	records					
Sum								1286	0
QSOP (Pb-Free)									
SQ2414ABGN	R	MR091002	R1	CY7C63743C-QXC	130	5.5	128	25	0
SQ2414ABGN	R	MR092005	R1	CY7C63743C-QXC	130	5.5	128	25	0
Summary for Package Family: QSOP (Pb-Free)			2	records					
Sum								50	0
RTSOP (Pb-free)									
ZY28R2BLN	R	MR091010	R1	CY62256NLL-70ZRXIT	130	5.5	128	25	0
Summary for Package Family: RTSOP (Pb-free)			1	records					
Sum								25	0
SNC (Pb-Free)									
SY2831BBLN	R	MR084004	R1	CG7107AM	130	3.63	128	40	0
SY2831BBLN	R	MR084004	R1A	CG7107AM	130	3.63	128	40	0
SY2831BBLN	R	MR091007	R1	CY62256NLL-70SNXCT	130	5.5	128	45	0
SY2831BBLN	R	MR092021	R1	CY62256NLL-70SNXCT	130	5.5	128	25	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	130	5.5	96	30	0
Summary for Package Family: SNC (Pb-Free)			5	records					
Sum								180	0
SOIC									
S0815PBAGN	RA	MR091017	R1	CY2305SI-1HT	130	3.8	128	25	0
S0815PBAGN	RA	MR092027	R1	CY2305SC-1HT	130	3.63	128	25	0
Summary for Package Family: SOIC			2	records					
Sum								50	0
SOIC (J-Lead)									
V243GAAAGN	X	090302	R1	CY7C197BN-15VC	130	5.5	128	80	0
V243GAAAGN	X	090302	R2	CY7C197BN-15VC	130	5.5	128	80	0
V243GAAGN	X	090302	R4	CY7C197BN-15VC	130	5.5	128	79	0
V32418BLL	R	MR092028	R1	CY7C109BNL-15VC	130	5.5	128	25	0
Summary for Package Family: SOIC (J-Lead)			4	records					
Sum								264	0
SOIC (J-Lead, Pb-Free)									
VZ24	X	091906	R1	7C197B	130	5.5	128	77	0
VZ24	X	091906	R2	7C197BN	130	5.5	128	72	0
VZ28315PLL	R	092003	R2	CY7C192-15VXC	130	5.5	128	77	0
VZ3646BGLL	R	MR084001	R1	CY7C1049CV33-10VXCT	130	3.65	128	25	0
VZ28313BLN	R	MR084019	R1	CY7C1399BN-12VXIT	130	3.63	128	80	0
VZ28313BLN	R	MR091045	R1	CY7C1399BN-12VXCT	130	3.63	128	25	0

VZ3649BALN	R	MR091046	R1	CG7119AM	130	3.65	128	25	0
VZ28313BLN	R	MR092026	R1	CY7C1399BN-12VXCT	130	3.63	128	25	0
VZ32420BLL	R	MR092036	R1	CY7C1019DV33-10VXI	130	3.63	128	25	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	130	3.63	128	27	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	130	3.6	128	30	0
Summary for Package Family: SOIC (J-Lead, Pb-Free)				11	records				
Sum								488	0
SOIC (Pb-Free)									
SZ815VAGN	M	071904	R2	CY24C16L-3SXIES	130	3.63	128	76	0
SZ815VAGN	M	071904	R3	CY24C16L-3SXIES	130	3.63	128	77	0
SZ1615FAL	T-OSE	MR081049	R1	CY2309CSXC-1	130	3.63	128	80	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	130	5.5	256	24	0
SZ183CGAN	RA	MR082012	R1A	CY7C63723C-SXC	130	5.5	128	40	0
SZ324516BL	R-CML	MR083017	R1	CY62148ELL-55SXIT	130	3.6	128	78	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	130	5.5	128	40	0
SZ183CBGAN	RA	MR083019	R1A	CY7C63723C-SXC	130	5.5	128	40	0
SZ183CBGAN	RA	MR083019	R1A	CY7C63723C-SXC	130	5.5	256	25	0
SZ1615FAL	T-TAIWAN	MR083041	R1	CY23EP09SXC-1H	110	3.63	264	25	0
SZ2035BAL	R	MR084005	R1	CY8C24223A-24SXI	130	5.25	128	40	0
SZ2035BAL	R	MR084005	R1A	CY8C24223A-24SXI	130	5.25	128	17	0
SZ815DAGN	M	MR084018	R1	CY2304SXI-2	130	3.63	128	80	0
SZ1615BKGN	RA	MR084020	R1	CY2309SXC-1HT	130	3.8	128	25	0
SZ183CBGAN	RA	MR084026	R1	CY7C63723C-SXC	130	5.5	128	40	0
SZ183CBGAN	RA	MR084026	R1A	CY7C63723C-SXC	130	5.5	128	40	0
SZ24315BGN	RA	MR084029	R1	CY7C63743C-SXC	130	5.5	128	46	0
SZ24312BGN	R	MR084033	R1	CY7C63743C-SXC	130	5.5	128	40	0
SZ24312BGN	R	MR084033	R2	CY7C63743C-SXC	130	5.5	128	40	0
SZ815PABGN	RA	MR084061	R1	CY25560SXCT	130	3.63	128	25	0
SZ1615FAL	T	MR084072	R1	CY2309CSXC-1T	130	3.63	128	25	0
SZ2035BAL	R	MR091001	R1	CY8C27243-24SXI	130	5.25	128	25	0
SZ183CBGAN	RA	MR091003	R1	CY7C63723C-SXC	130	5.5	128	25	0
SZ32457BLN	R	MR091004	R1	CY62128ELL-45SXIT	130	3.8	128	25	0
SZ1615BKGN	RA	MR091016	R1	CY2308SXC-2T	130	3.8	128	25	0
SZ1615EGN	M	MR091020	R1	CY2309SXI-1HT	130	3.8	128	25	0
SZ2035BAL	R	MR092003	R1	CY8C27243-24SXI	130	5.25	128	25	0
SZ183CBGAN	RA	MR092024	R1	CY7C63723C-SXC	130	5.5	128	25	0
SZ1615FAL	T	MR092025	R1	CY23EP09SXC-1HT	130	3.63	128	25	0
SZ1615KDGN	RA	MR093002	R1	CY2308SXC-1	130	3.8	128	30	0
SZ24315BGN	RA	MR093011	R1	CY7C63743C-SXC	130	5.5	128	30	0
SZ32457BLN	R	MR093019	R1	CY62128ELL-45SXIT	130	5.5	128	25	0
Summary for Package Family: SOIC (Pb-Free)				32	records				
Sum								1208	0
SSOP									
O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	130	3.63	128	30	0

Summary for Package Family: SSOP			1	records					
Sum								30	0
SSOP (Pb-Free)									
SP2822BGL	T-Taiwan	072502	R3A	CY8C294665-24PVXI	130	5.25	128	77	0
SP483AGAN	R	084703	R1	CY8C20566-24PVXI	130	5.25	128	77	0
SP483ACGAN	R	090301	R1A	CY8C20566-24PVXI	130	5.25	128	77	0
SP483ACGAN	R	090301	R1B	CY8C20566-24PVXI	130	5.25	128	77	0
SP483ACGAN	R	090301	R1B	CY8C20566-24PVXI	130	5.25	256	77	0
SP483ACGAN	R	090301	R1C	CY8C20566-24PVXI	130	5.25	128	76	0
SP483ACGAN	R	090301	R2B	CY8C20566-24PVXI	130	5.25	128	77	0
SP28214GL	T-OSE	MR082013	R1	CY8C26443-24PVX	110	5.25	264	80	0
SP2822BGL	M-PHILS	MR083008	R1	CY8C21534-12PVXET	130	5.25	96	77	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	130	5.25	256	80	0
SP28214GL	T-TAIWAN	MR083036	R1	CY8C9520A-24PVXI	110	5.25	264	25	0
SP2824HAN	T	MR084021	R1	CY8C24533-24PVXI	130	5.25	128	70	0
SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	130	3.63	128	77	0
SP2822BGL	M	MR084059	R1	CY8C29466-24PVXA	130	5.25	96	76	0
SP483EBBAL	R	MR091005	R1	CY8C27643-24PVXI	130	5.25	128	25	0
SP2822BGL	M	MR091006	R1	CY8C27443-12PVXE	130	5.25	96	25	0
SP2822BGL	M	MR091042	R1	CP6801ATT	130	5.25	96	25	0
SP28214GL	T	MR091057	R1	CY7C64215-28PVXC	110	5.25	264	25	0
SP483EBBAL	R-CML	MR092004	R1	CY8C29666-24PVXIT	130	5.25	128	25	0
SP282ABAGN	RA	MR092035	R1	CY8C24423A-24PVXIT	130	5.25	128	25	0
SP2822BGL	M	MR092057	R1	CY8C29466-24PVXIES	130	5.25	128	25	0
SP563DBBGN	R	MR093010	R1	CY7C66113C-PVXC	130	5.5	128	29	0
SP483HAAGR	M	MR093024	R1	CY14B101L-SP45XCT	130	3.6	128	30	0
SP2814HAL	M	MR093052	R1	CS6835AT	130	5.25	128	29	0
Summary for Package Family: SSOP (Pb-Free)			24	records					
Sum								1286	0
TQFP									
A32LXGXGB	Q	MR091043	R1	CY29948ACT	130	3.63	128	25	0
Summary for Package Family: TQFP			1	records					
Sum								25	0
TQFP (Pb-Free)									
AZ32BXGAN	Q	MR083031	R1A	CY7C4251V-25AXC	130	3.63	128	40	0
AZ100RBBLN	R	MR084002	R1	CY7C1370D-167AXI	130	3.6	128	79	0
AZ100RUBLN	R	MR091026	R1	CY7C1350G-133AXC	130	3.6	128	25	0
AZ52ASGAL	Q	MR092008	R1	CY7B9973V-AXC	130	5.25	128	25	0
AZ32GXGAN	G	MR092045	R1	CY29940AXC	130	3.63	128	25	0
AZ32GXGAN	G	MR093031	R1	CY29940AXC	130	3.63	128	25	0
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	130	3.63	128	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	130	5.5	128	30	0
Summary for Package Family: TQFP (Pb-Free)			8	records					
Sum								279	0

TSOP (Pb-free)

ZT48AKAALL	T	084612	R2	CY62177EV30LL	130	3.6	96	34	0
ZT48AKAALL	T	084612	R2	CY62177EV30LL	130	3.6	96	45	0
ZT28R2BBLN	R	91302	R2A	7C622565EK-**RZTIB	130	0	128	80	0
ZT28R2BBLN	R	091302	R2A	7C622565EK-**RZTIB	130	0	256	79	0
ZT32RABALL	T-OSE	MR083051	R1	CY62128BLL-70ZXC	110	5	264	80	0
ZT32RAEBLN	RA	MR084006	R1	CG6708AMT	130	3.6	128	39	0
ZT32RAEBLN	RA	MR084006	R1A	CG6708AMT	130	3.6	128	36	0
ZT32RABALL	T	MR084057	R1	CY62128BNLL-55ZXI	110	5.5	264	25	0
ZT28R2BBLN	R	MR084060	R1	CY62256VNLL-70ZXC	130	3.63	128	39	0
ZT28R2BBLN	R	MR091012	R1	CY62256NLL-55ZXIT	130	5.5	128	25	0
ZT32RAEBLN	RA	MR091014	R1	CY62128EV30LL-45ZXI	130	3.6	128	25	0
ZT32RABALL	T	MR091021	R1	CY62128EV30LL-45ZXI	130	3.6	264	25	0
ZT28R2BBLN	R	MR092018	R1	CY62256VNLL-70ZXCT	130	5.5	128	24	0
ZT28R4BGL	R	MR092063	R1A	CY7C1399BN-12ZXCT	130	3.63	128	30	0
ZT32RAEDLN	RA	MR093006	R1	CY62128ELL-45ZXIT	130	3.6	128	29	0
ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	110	3.6	128	30	0

Summary for Package Family: TSOP (Pb-free)
16
records
Sum **645** **0**
TSOP I (Pb-Free)

ZB32RHALN	R	093104	R1	CY62138FV30LL-45ZAXI	130	3.6	96	79	0
ZB32RHALN	R	093104	R1	CY62138FV30LL-45ZAXI	130	3.6	128	78	0
ZB32RHALN	R	093104	R2	CY62138FV30LL-45ZAXI	130	3.6	96	78	0
ZB32RHALN	R	093104	R3	CY62138FV30LL-45ZAXI	130	3.6	96	78	0
ZB32RHALN	R	093104	R3	CY62138FV30LL-45ZAXI	130	3.6	128	78	0
ZB32RHBALN	R	MR091031	R1	CG7086AM	130	3.6	128	25	0
ZB32RHBALN	R	MR092014	R1	CG7086AMT	130	3.6	128	24	0

Summary for Package Family: TSOP I (Pb-Free)
7
records
Sum **440** **0**
TSOP II (Pb-Free)

ZW444GALL	R	071304	R9	7C1404B6BC-**RZWCB	130	5.5	128	80	0
ZW444ZALL	G	082703	R1	CY14B108L-ZS25XIES	130	3.3	128	80	0
ZW444ZALL	G	082703	R3	7C1408B8BC-GZWIB	130	0	128	45	0
ZW444GALL	R	082704	R1	CY7C1404B	130	3.3	128	79	0
ZW444GALL	R	082704	R1	CY7C1404B	130	3.3	256	79	0
ZW444GALL	R	090604	R2	7C1404B1CC-RZWCB	130	3.3	128	79	0
ZW444GALL	R	090604	R2	7C1404B1CC-RZWCB	130	3.3	256	79	0
ZW544AALL	G-TAIWAN	MR083002	R1	CY7C1069AV33-10ZX	130	3.65	128	40	0
ZW324CBLL	T-OSE	MR083043	R1	CY62148EV30LL-45ZSXI	130	3.6	128	75	0
ZW444AJBLN	R-CML	MR083071	R1	CY7C1021CV33-10ZXC	130	3.65	96	76	0
ZW444AHBLL	R	MR084007	R1	CG6850AM	130	3.6	128	80	0
ZW324CBLL	T	MR084025	R1	CG7092AM	130	3.63	128	75	0
ZW544AALL	G	MR084038	R1	CY7C1061AV33-10ZXC	130	3.65	128	39	0
ZW544AALL	G	MR084038	R1A	CY7C1061AV33-10ZXC	130	3.65	128	39	0

ZW444AMLN	R	MR091013	R1	CY62147DV30LL-55ZSXET	130	3.6	96	25	0
ZW544AALL	G	MR091027	R1	CS6729AT	130	3.65	128	25	0
ZW324GALL	T	MR091056	R1	CY7C1019DV33-10ZSXI	130	3.63	128	25	0
ZW324CBLL	T	MR092015	R1	CY62148EV30LL-45ZSXI	130	3.6	128	23	0
ZW444RAGN	R	MR093015	R1	CY62137VNLL-70ZSXAT	130	3.6	96	30	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	110	3.6	128	30	0
Summary for Package Family: TSOP II (Pb-Free)			20	records				1103	0
Sum								1103	0
TSSOP									
Z1620GBAGN	RA	MR084016	R1	CY2309ZC-1HT	130	3.8	128	77	0
Z1620GBAGN	RA	MR092022	R1	CY2309ZC-1HT	130	3.8	128	25	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	130	3.8	128	30	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	130	3.63	128	30	0
Summary for Package Family: TSSOP			4	records				162	0
Sum								162	0
TSSOP (Pb-Free)									
ZZ1620GBAN	RA	MR084022	R1	CY2308ZXC-1HT	130	3.8	128	65	0
ZZ1619GAN	RA	MR084065	R1	CY2309CZXI-1H	130	3.68	128	77	0
ZZ1620GBAN	RA	MR091018	R1	CY2309ZXC-1HT	130	3.8	128	25	0
ZZ0812BGL	T	MR091019	R1	CY25100ZXC38T	130	3.63	128	25	0
ZZ1620GBAN	RA	MR092020	R1	CY2309ZXC-1HT	130	3.8	128	25	0
ZZ0812BGL	T	MR092023	R1	CYIFS781BZXCT	130	6	128	24	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	130	2.8	128	30	0
Summary for Package Family: TSSOP (Pb-Free)			7	records				271	0
Sum								271	0
VFBGA (0.75-0.8, 0.3mm)									
BV48ABEAL	AT	MR092012	R1	CY62167EV30LL-45BVI	110	3.6	264	25	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			1	records				25	0
Sum								25	0
VFBGA (0.75-0.8, 0.3mm, Pb-Free)									
BZ56GABGL	RA-CML	MR083005	R1	CY7C68053-56BAXIT	110	3.63	264	38	0
BZ100CGAL	RA-CML	MR083029	R1	CYWB0124AB-BVXI	130	3.63	128	80	0
BZ48ABDALL	AT-CARSEM	MR083060	R1	CY62137EV30LL-45BVXI	130	3.6	264	25	0
BZ56BGALL	RA	MR084011	R1	CY7C68013A-56BAXC	130	3.63	128	25	0
BZ100DGALL	RA	MR084012	R1	CYWB0124AB-BVXIT	130	3.63	128	25	0
BZ48DAGLL	RA	MR084034	R1	CY62137FV30LL-45BVXIT	130	3.6	128	29	0
BZ56IAAAGL	AT	MR084071	R1	CY7C68053-56BAXIT	110	3.63	264	24	0
BZ100DGALL	RA	MR084073	R1	CYWB0124AB-BVXIT	130	3.63	128	15	0
BZ100DGALL	RA	MR084073	R1A	CYWB0124AB-BVXIT	110	3.63	264	15	0
BZ100DGALL	RA	MR091015	R1	CYWB0124AB-BVXI	110	3.6	264	23	0
BZ48ABBL	AT	MR092011	R1	CY62127DV30LL-55BVXIT	110	3.6	264	25	0
BZ48DAGLL	RA	MR092016	R1	CY62137FV30LL-45BVXIT	110	3.6	264	24	0
BZ48CHALL	G	MR092031	R1	CY62126EV30LL-55BVXE	110	3.6	264	25	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	130	0	128	30	0



BZ48CFBALL	G	MR093025	R1	CY62157EV30LL-45BVXA	130	5.5	264	28	0
BZ56BGALL	RA	MR093036	R1	CY7C68013A-56BAXC	110	3.63	128	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)			16	records					
Sum							461	0	

Summary Detail -- HTS Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
FBGA (0.75-0.8, 0.3mm, Pb-free)											
BK48DJALL	G	MR083050	R1	CY62177DV30LL-55BAXI	150	0	1000	80	0		
BK48DQBLL	G	MR084056	R1	CG7081AM	150	0	1000	79	0		
BK48DQBLL	G	MR084056	R1	CG7081AM	150	0	500	79	0		
BK48CDGLL	G	MR091060	R1	CY7C1041CV33-10BAXA	150	0	1000	80	0		
BK48CDGLL	G	MR092042	R1	CY7C1041CV33-10BAXAT	150	0	1000	30	0		
BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	150	0	500	30	0		
BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	150	0	1000	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)				7	records						
Sum								408	0		
FBGA (1.0-1.27)											
BB172AAALE	G	MR084070	R1	CY7C057V-15BBI	150	0	500	80	0		
BB172AAALE	G	MR084070	R1	CY7C057V-15BBI	150	0	1000	80	0		
BB100CAALE	G	MR091023	R1	CYP15G0101DXB-BBC	150	0	500	80	0		
BB100CAALE	G	MR091023	R1	CYP15G0101DXB-BBC	150	0	1000	80	0		
BB165ALLE	G	MR092017	R1	CY7C1312BV18-200BZC	150	0	500	30	0		
BB165ALLE	G	MR092017	R1	CY7C1312BV18-200BZC	150	0	1000	30	0		
BB165AVLE	RA	MR092058	R1	CY7C1313TV18-250BZC	150	0	500	30	0		
BB165AVLE	RA	MR092058	R1	CY7C1313TV18-250BZC	150	0	1000	30	0		
BB165AFBLE	AT	MR092076	R1	CY7C1315BV18-200BZC	150	0	500	30	0		
BB165AFBLE	AT	MR092076	R1	CY7C1315BV18-200BZC	150	0	1000	30	0		
Summary for Package Family: FBGA (1.0-1.27)				10	records						
Sum								500	0		
FBGA (1.0-1.27, Pb-free)											
BW165AZALL	AT	083601	R1	CY1512V18-200BZXC	150	0	500	77	0		
BW165AZALL	AT	083601	R1	CY1512V18-200BZXC	150	0	1000	77	0		
BW165AZALL	AT	084003	R1	CY1512V18-200BZXC	150	0	500	77	0		
BW165AZALL	AT	084003	R1	CY1512V18-200BZXC	150	0	1000	77	0		
BW165BJALL	G	091706	R1A	CY7C1512KV18-*BZCES	150	0	500	70	0		
BW165BJALL	G	091706	R1A	CY7C1512KV18-*BZCES	150	0	1000	70	0		
BW100EAGL	G	MR084067	R1	CYP15G0101DXB-BBXC	150	0	500	79	0		
BW100EAGL	G	MR084067	R1	CYP15G0101DXB-BBXC	150	0	1000	79	0		
BW100AAALL	AT	MR091061	R1	CYP15G0101DXB-BBXI	150	0	500	80	0		
BW100AAALL	AT	MR091061	R1	CYP15G0101DXB-BBXI	150	0	1000	78	0		
BW100CAGL	G	MR092052	R1	CY7B994V-2BBXIT	150	0	500	30	0		
BW100CAGL	G	MR092052	R1	CY7B994V-2BBXIT	150	0	1000	30	0		
BW100EAGL	G	MR093033	R1	CYP15G0101DXB-BBXI	150	0	500	29	0		
BW100EAGL	G	MR093033	R1	CYP15G0101DXB-BBXI	150	0	1000	29	0		

Summary for Package Family: FBGA (1.0-1.27, Pb-free) 14

Sum								882	0
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PBGA (1.27)

BG119SALE	G	MR084037	R1	CY7C1354C-166BGC	150	0	500	80	0
BG119SALE	G	MR084037	R1	CY7C1354C-166BGC	150	0	1000	80	0
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	150	0	500	30	0
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	150	0	1000	30	0

Summary for Package Family: PBGA (1.27) 4

Sum								220	0
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PBGA (1.27, Pb-free)

BY119YALL	G	MR092050	R1	CY7C1062DV33-10BGXI	150	0	500	30	0
BY119YALL	G	MR092050	R1	CY7C1062DV33-10BGXI	150	0	1000	30	0

Summary for Package Family: PBGA (1.27, Pb-free) 2

Sum								60	0
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PBGA (Cavity/Heat Sink)

BL256L2GE	G	MR084066	R1	CYP15G0401DXB-BGI	150	0	500	80	0
BL256L2GE	G	MR084066	R1	CYP15G0401DXB-BGI	150	0	1000	80	0

Summary for Package Family: PBGA (Cavity/Heat Sink) 2

Sum								160	0
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PDIP (Pb-Free)

PZ183DBGN	RA-CML	MR083022	R1	CY7C63723C-PXC	150	0	1000	80	0
PZ283AAAGN	X-THAILAND	MR083047	R1	CY8C24423A-24PXI	150	0	1000	80	0
PZ2831HAAS	O-OMEDATA	MR083052	R1	CY7C199CN-15PXC	150	0	1000	80	0
PZ243AAAGN	X	MR084028	R1	CY7C63743C-PXC	150	0	500	80	0
PZ243AAAGN	X	MR084028	R1	CY7C63743C-PXC	150	0	1000	80	0
PZ283AAAGN	X	MR084031	R1	CY8C27443-24PXI	150	0	500	80	0
PZ283AAAGN	X	MR084031	R1	CY8C27443-24PXI	150	0	1000	79	0
PZ183DBGN	RA	MR091008	R1	CY7C63723C-PXC	150	0	500	80	0
PZ183DBGN	RA	MR091008	R1	CY7C63723C-PXC	150	0	1000	80	0
PZ283ACAGL	X	MR091039	R1	CY7C199CN-15PXC	150	0	500	80	0
PZ283ACAGL	X	MR091039	R1	CY7C199CN-15PXC	150	0	1000	80	0
PZ283AAAGN	X	MR091044	R1	CG6993AM	150	0	500	80	0
PZ283AAAGN	X	MR091044	R1	CG6993AM	150	0	1000	80	0
PZ283AAAGN	X	MR092030	R1	CY8C24423A-24PXI	150	0	500	30	0
PZ283AAAGN	X	MR092030	R1	CY8C24423A-24PXI	150	0	1000	30	0
PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	150	0	500	30	0
PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	150	0	1000	30	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	150	0	500	30	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	150	0	1000	30	0

Summary for Package Family: PDIP (Pb-Free) 19

Sum								1219	0
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PLCC

J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	150	0	1500	78	0
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J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	150	0	2000	78	0
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	150	0	2500	78	0
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	150	0	3000	78	0
Summary for Package Family: PLCC			4	records				312	0
Sum									0
PLCC (Pb-Free)									
JZ52SFGAN	M	MR084046	R1	7C136GT-**MJXCT	150	0	500	80	0
JZ52SFGAN	M	MR084046	R1	7C136GT-**MJXCT	150	0	1000	80	0
JZ28SBGAN	M	MR091037	R1	CY7B933-JXC	150	0	500	80	0
JZ28SBGAN	M	MR091037	R1	CY7B933-JXC	150	0	1000	80	0
Summary for Package Family: PLCC (Pb-Free)			4	records				320	0
Sum									0
PQFP (Pb-free)									
NZ52DXGAN	G	MR084053	R1	7C136GT-**GNZC	150	0	500	80	0
NZ52DXGAN	G	MR084053	R1	7C136GT-**GNZC	150	0	1000	80	0
NZ52DXGAN	G	MR091025	R1	CY7C136-55NXCT	150	0	500	80	0
NZ52DXGAN	G	MR091025	R1	CY7C136-55NXCT	150	0	1000	80	0
NZ52DXGAN	G	MR093032	R1	CY7C136-55NXC	150	0	500	29	0
NZ52DXGAN	G	MR093032	R1	CY7C136-55NXC	150	0	1000	28	0
Summary for Package Family: PQFP (Pb-free)			6	records				377	0
Sum									0
QFN (0.4mm, Saw Type, Pb-free)									
LN32AAAAAL	CA	MR084040	R1	CP7052ATT	150	0	500	80	0
LN32AAAAAL	CA	MR084040	R1	CP7052ATT	150	0	1000	80	0
LN32AAAAAL	CA	MR091052	R1	CP7052BTT	150	0	500	80	0
LN32AAAAAL	CA	MR091052	R1	CP7052BTT	150	0	1000	80	0
LN32AAAAAL	CA	MR092048	R1	CP7052BTT	150	0	500	30	0
LN32AAAAAL	CA	MR092048	R1	CP7052BTT	150	0	1000	30	0
Summary for Package Family: QFN (0.4mm, Saw Type, Pb-free)			6	records				380	0
Sum									0
QFN (0.6mm, Punch Type, Pb-Free)									
LK32AABAG	L	MR084008	R1	CY8C20434-12LKXI	150	0	500	80	0
LK32AABAG	L	MR084008	R1	CY8C20434-12LKXI	150	0	1000	80	0
LK32AABAGL	L	MR091011	R1	CY8C20434-12LKXIT	150	0	500	80	0
LK32AABAGL	L	MR091011	R1	CY8C20434-12LKXIT	150	0	1000	80	0
LK32AABAGL	L	MR092044	R1	CY8C20434-12LKXIT	150	0	500	30	0
LK32AABAGL	L	MR092044	R1	CY8C20434-12LKXIT	150	0	1000	30	0
Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)			6	records				380	0
Sum									0
QFN (0.6mm, Saw Type, Pb-Free)									
LQ32DAGLL	CA-MALAYSIA	082602	R1	CY8C23533-24LQXI	150	0	1500	80	0
LQ32ACAAGL	M	084609	R1	CY24292LFXI	150	0	500	80	0
LQ32ACAAGL	M	084609	R1	CY24292LFXI	150	0	1000	80	0

LQ24ADAAGL	CA	084701	R1	CY8CTST200-24LQXI	150	0	500	77	0
LQ24ADAAGL	CA	084701	R1	CY8CTST200-24LQXI	150	0	1000	76	0
LQ24ADAAGL	CA	084701	R1	CY8CTST200-24LQXI	150	0	1500	75	0
LQ24AEAAGL	M	091203	R4	CY8C203345-12LQXI	150	0	1000	80	0
LQ24ABAAL	AT	MR084039	R1	CY8C20324-12LQXI	150	0	500	80	0
LQ24ABAAL	AT	MR084039	R1	CY8C20324-12LQXI	150	0	1000	80	0
LQ24ABAAL	AT	MR091040	R1	CP6836ATT	150	0	500	80	0
LQ24ABAAL	AT	MR091040	R1	CP6836ATT	150	0	1000	80	0
LQ24ABAAL	AT	MR092009	R1	CY8C20324-12LQXI	150	0	500	30	0
LQ32DAGLL	CA	MR092054	R1	CY8C20466-24LQXI	150	0	500	30	0
LQ32DAGLL	CA	MR092054	R1	CY8C20466-24LQXI	150	0	1000	30	0
LQ32DAGLL	CA	MR093044	R1	CY8C20466-24LQXI	150	0	500	30	0
LQ32DAGLL	CA	MR093044	R1	CY8C20466-24LQXI	150	0	1000	30	0
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	150	0	500	30	0
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	150	0	1000	30	0
Summary for Package Family: QFN (0.6mm, Saw Type, 18 Pb-Free)				records					
Sum								1078	0
QFN (COL, 0.6mm, Saw Type, Pb-free)									
LG16AAAAAL	M	084404	R1	CY7C64316-16LKXC	150	0	500	77	0
LG16AAAAAL	M	084404	R1	CY7C64316-16LKXC	150	0	1000	77	0
LG16AAAAAL	MB	093905	R1	CY8C20246-24LKXI	150	0	500	77	0
LG16AAAAAL	MB	093905	R1	CY8C20246-24LKXI	150	0	1000	66	0
LG16AAAAAL	MB	093905	R4	CY8C20246-24LKXI	150	0	500	90	0
LG16AAAAAL	MB	093905	R4	CY8C20246-24LKXI	150	0	1000	80	0
LG16AAAAAL	M-PHILS	MR083048	R1	CY8C20122-LDX2I	150	0	1000	80	0
LG16AAAAAL	M	MR084013	R1	CY8C20234-12LKXI	150	0	500	80	0
LG16AAAAAL	M	MR084013	R1	CY8C20234-12LKXI	150	0	1000	80	0
LG16AAAAAL	LG	MR092053	R1	CY8C20180-LDX2I	150	0	500	30	0
LG16AAAAAL	LG	MR092053	R1	CY8C20180-LDX2I	150	0	1000	30	0
Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free)				records					
Sum								690	0
QFN (Punch Type, Pb-Free)									
LY56DGAGL	L	080904	R1	CY7C66113C-LFXC	150	0	1000	80	0
LY56DGAGL	L	080904	R2	CY7C66113C-LFXC	150	0	1000	80	0
LY40BGAGL	L-KOREA	MR083058	R1	CYRF6936-40LFXC	150	0	1000	80	0
LY68AGABGL	L	MR084009	R1	CS6656AAT	150	0	500	80	0
LY68AGABGL	L	MR084009	R1	CS6656AAT	150	0	1000	80	0
LY40BGAGL	L	MR084014	R1	CYRF6936-40LFXC	150	0	500	80	0
LY40BGAGL	L	MR084014	R1	CYRF6936-40LFXC	150	0	1000	80	0
LY32AAAGR	L	MR084015	R1	CY8C21434-24LFXI	150	0	500	80	0
LY32AAAGR	L	MR084015	R1	CY8C21434-24LFXI	150	0	1000	80	0
LY68AGAAGL	L	MR091024	R1	CY8CLED04-68LFXI	150	0	500	80	0
LY68AGAAGL	L	MR091024	R1	CY8CLED04-68LFXI	150	0	1000	80	0

LY40ABGAGL	L	MR091030	R1	CS7067AT	150	0	500	80	0
LY40ABGAGL	L	MR091030	R1	CS7067AT	150	0	1000	80	0
LY32AAAGR	L	MR091032	R1	CS6624AA	150	0	500	80	0
LY32AAAGR	L	MR091032	R1	CS6624AA	150	0	1000	80	0
LY40CGAGR	L	MR092032	R1	CYRF69103-40LFXC	150	0	500	30	0
LY40CGAGR	L	MR092032	R1	CYRF69103-40LFXC	150	0	1000	30	0
LY32AAAAGR	L	MR092041	R1	CY8C21434-24LFXI	150	0	500	30	0
LY32AAAAGR	L	MR092041	R1	CY8C21434-24LFXI	150	0	1000	30	0
LY32AAAAGR	L	MR093017	R1	CP6759AMT	150	0	500	27	0
LY32AAAAGR	L	MR093017	R1	CP6759AMT	150	0	1000	27	0
LY48CGAGL	L	MR093046	R1	CY8C27643-24LFXIT	150	0	500	30	0
LY48CGAGL	L	MR093046	R1	CY8C27643-24LFXIT	150	0	1000	30	0
Summary for Package Family: QFN (Punch Type, Pb-Free)				23	records				
Sum							1434	0	
QFN (Saw Type, Pb-free)									
LT56ABAAGL	CA-Malaysia	075103	R2	CY8CLED04DOCD1-56ES	150	0	500	90	0
LT56ABAAGL	CA-Malaysia	075103	R2	CY8CLED04DOCD1-56ES	150	0	1000	90	0
LT48ABAAGR	CA	083701	R1	CYWUSB6934-48LTXC	150	0	500	77	0
LT48ABAAGR	CA	083701	R1	CYWUSB6934-48LTXC	150	0	1000	77	0
LT32BBACGL	AE	084007	R1	CY8C21434-24LTXI	150	0	500	77	0
LT32BBACGL	AE	084007	R1	CY8C21434-24LTXI	150	0	1000	77	0
LT32BAABGL	RA	084602	R7	CY8C21434-24LTXIKA	150	0	500	77	0
LT32BAABGL	RA	084602	R7	CY8C21434-24LTXIKA	150	0	1000	77	0
LT32BAAAGL	CA	MR084041	R1	CG7032AA	150	0	500	80	0
LT32BAAAGL	CA	MR084041	R1	CG7032AA	150	0	1000	80	0
LT32BAABGL	RA	MR091009	R1	CG7032AA	150	0	500	80	0
LT32BAABGL	RA	MR091009	R1	CG7032AA	150	0	1000	80	0
LT32BAABGL	RA	MR092034	R1	CY8C21434-24LTXI	150	0	500	30	0
LT32BAABGL	RA	MR092034	R1	CY8C21434-24LTXI	150	0	1000	30	0
LT32BAAGGL	M	MR092051	R1	CG6644FA	150	0	500	30	0
LT32BAAGGL	M	MR092051	R1	CG6644FA	150	0	1000	30	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	150	0	500	30	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	150	0	1000	30	0
Summary for Package Family: QFN (Saw Type, Pb-free)				18	records				
Sum							1142	0	
QSOP (Pb-Free)									
SQ2414ABGN	R	MR084027	R1	CY7C60223-QXC	150	0	500	80	0
SQ2414ABGN	R	MR084027	R1	CY7C60223-QXC	150	0	1000	80	0
SQ2414ABGN	R	MR091002	R1	CY7C63743C-QXC	150	0	500	80	0
SQ2414ABGN	R	MR091002	R1	CY7C63743C-QXC	150	0	1000	80	0
SQ2414ABGN	R	MR092005	R1	CY7C63743C-QXC	150	0	500	30	0
SQ2414ABGN	R	MR092005	R1	CY7C63743C-QXC	150	0	1000	30	0
Summary for Package Family: QSOP (Pb-Free)				6	records				

Sum								380	0
RTSOP (Pb-free)									
ZY28R2BLN	R	MR091010	R1	CY62256NLL-70ZRXIT	150	0	500	80	0
ZY28R2BLN	R	MR091010	R1	CY62256NLL-70ZRXIT	150	0	1000	80	0
Summary for Package Family: RTSOP (Pb-free)			2	records				160	0
Sum								160	0
SNC (Pb-Free)									
SY2831BBLN	R	091302	R1	7C622565EK-**RSYIB	150	0	500	80	0
SY2831BBLN	R	091302	R1	7C622565EK-**RSYIB	150	0	1000	80	0
SY2831BBLN	R	MR084004	R1	CG7107AM	150	0	500	80	0
SY2831BBLN	R	MR084004	R1	CG7107AM	150	0	1000	80	0
SY2831BBLN	R	MR091007	R1	CY62256NLL-70SNXCT	150	0	500	80	0
SY2831BBLN	R	MR091007	R1	CY62256NLL-70SNXCT	150	0	1000	80	0
SY2831BBLN	R	MR092021	R1	CY62256NLL-70SNXCT	150	0	500	30	0
SY2831BBLN	R	MR092021	R1	CY62256NLL-70SNXCT	150	0	1000	30	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	150	0	1000	30	0
Summary for Package Family: SNC (Pb-Free)			9	records				570	0
Sum								570	0
SOIC									
S0815PBAGN	RA	MR091017	R1	CY2305SI-1HT	150	0	500	80	0
S0815PBAGN	RA	MR091017	R1	CY2305SI-1HT	150	0	1000	80	0
S0815PBAGN	RA	MR092027	R1	CY2305SC-1HT	150	0	500	30	0
S0815PBAGN	RA	MR092027	R1	CY2305SC-1HT	150	0	1000	30	0
Summary for Package Family: SOIC			4	records				220	0
Sum								220	0
SOIC (J-Lead)									
V243GAAAGN	X	090302	R1	CY7C197BN-15VC	150	0	500	80	0
V243GAAAGN	X	090302	R1	CY7C197BN-15VC	150	0	1000	80	0
V32418BLL	R	MR092028	R1	CY7C109BNL-15VC	150	0	500	30	0
V32418BLL	R	MR092028	R1	CY7C109BNL-15VC	150	0	1000	28	0
Summary for Package Family: SOIC (J-Lead)			4	records				218	0
Sum								218	0
SOIC (J-Lead, Pb-Free)									
VZ24	X	091906	R1	7C197B	150	0	500	75	0
VZ24	X	091906	R1	7C197B	150	0	1000	75	0
VZ24	X	091906	R2	7C197BN	150	0	500	77	0
VZ24	X	091906	R2	7C197BN	150	0	1000	77	0
VZ3646BGLL	R	MR084001	R1	CY7C1049CV33-10VXCT	150	0	500	80	0
VZ3646BGLL	R	MR084001	R1	CY7C1049CV33-10VXCT	150	0	1000	80	0
VZ28313BLN	R	MR084019	R1	CY7C1399BN-12VXIT	150	0	500	79	0
VZ28313BLN	R	MR084019	R1	CY7C1399BN-12VXIT	150	0	1000	79	0
VZ28313BLN	R	MR091045	R1	CY7C1399BN-12VXCT	150	0	500	79	0
VZ28313BLN	R	MR091045	R1	CY7C1399BN-12VXCT	150	0	1000	79	0
VZ3649BALN	R	MR091046	R1	CG7119AM	150	0	500	80	0

VZ3649BALN	R	MR091046	R1	CG7119AM	150	0	1000	80	0
VZ28313BLN	R	MR092026	R1	CY7C1399BN-12VXCT	150	0	500	30	0
VZ28313BLN	R	MR092026	R1	CY7C1399BN-12VXCT	150	0	1000	30	0
VZ32420BLL	R	MR092036	R1	CY7C1019DV33-10VXI	150	0	500	30	0
VZ32420BLL	R	MR092036	R1	CY7C1019DV33-10VXI	150	0	1000	30	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	150	0	500	30	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	150	0	1000	30	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	150	0	500	29	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	150	0	1000	29	0
Summary for Package Family: SOIC (J-Lead, Pb-Free) 20				records					
Sum								1178	0
SOIC (Pb-Free)									
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	150	0	1500	80	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	150	0	1500	80	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	150	0	2000	80	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	150	0	2500	80	0
SZ2035BAL	R	MR084005	R1	CY8C24223A-24SXI	150	0	500	80	0
SZ2035BAL	R	MR084005	R1	CY8C24223A-24SXI	150	0	1000	80	0
SZ815DAGN	M	MR084018	R1	CY2304SXI-2	150	0	500	80	0
SZ815DAGN	M	MR084018	R1	CY2304SXI-2	150	0	1000	80	0
SZ1615BKGN	RA	MR084020	R1	CY2309SXC-1HT	150	0	500	80	0
SZ1615BKGN	RA	MR084020	R1	CY2309SXC-1HT	150	0	1000	80	0
SZ183CBGAN	RA	MR084026	R1	CY7C63723C-SXC	150	0	500	80	0
SZ183CBGAN	RA	MR084026	R1	CY7C63723C-SXC	150	0	1000	80	0
SZ24315BGN	RA	MR084029	R1	CY7C63743C-SXC	150	0	500	80	0
SZ24315BGN	RA	MR084029	R1	CY7C63743C-SXC	150	0	1000	80	0
SZ24312BGN	R	MR084033	R1	CY7C63743C-SXC	150	0	500	80	0
SZ24312BGN	R	MR084033	R1	CY7C63743C-SXC	150	0	1000	80	0
SZ815PABGN	RA	MR084061	R1	CY25560SXCT	150	0	500	80	0
SZ815PABGN	RA	MR084061	R1	CY25560SXCT	150	0	1000	80	0
SZ1615FAL	T	MR084072	R1	CY2309CSXC-1T	150	0	500	80	0
SZ1615FAL	T	MR084072	R1	CY2309CSXC-1T	150	0	1000	80	0
SZ2035BAL	R	MR091001	R1	CY8C27243-24SXI	150	0	500	80	0
SZ2035BAL	R	MR091001	R1	CY8C27243-24SXI	150	0	1000	80	0
SZ183CBGAN	RA	MR091003	R1	CY7C63723C-SXC	150	0	500	80	0
SZ183CBGAN	RA	MR091003	R1	CY7C63723C-SXC	150	0	1000	80	0
SZ32457BLN	R	MR091004	R1	CY62128ELL-45SXIT	150	0	500	80	0
SZ32457BLN	R	MR091004	R1	CY62128ELL-45SXIT	150	0	1000	80	0
SZ1615BKGN	RA	MR091016	R1	CY2308SXC-2T	150	0	500	80	0
SZ1615BKGN	RA	MR091016	R1	CY2308SXC-2T	150	0	1000	80	0
SZ1615EGN	M	MR091020	R1	CY2309SXI-1HT	150	0	500	80	0
SZ1615EGN	M	MR091020	R1	CY2309SXI-1HT	150	0	1000	80	0
SZ1615FAL	T	MR091058	R1	CY23EP09SXC-1HT	150	0	500	80	0
SZ1615FAL	T	MR091058	R1	CY23EP09SXC-1HT	150	0	1000	80	0

SZ2035BAL	R	MR092003	R1	CY8C27243-24SXI	150	0	500	30	0
SZ2035BAL	R	MR092003	R1	CY8C27243-24SXI	150	0	1000	30	0
SZ324513BN	R	MR092006	R1	CY7C53120E2-10SXI	150	0	500	30	0
SZ324513BN	R	MR092006	R1	CY7C53120E2-10SXI	150	0	1000	30	0
SZ183CBGAN	RA	MR092024	R1	CY7C63723C-SXC	150	0	500	30	0
SZ183CBGAN	RA	MR092024	R1	CY7C63723C-SXC	150	0	1000	30	0
SZ1615FAL	T	MR092025	R1	CY23EP09SXC-1HT	150	0	500	30	0
SZ1615FAL	T	MR092025	R1	CY23EP09SXC-1HT	150	0	1000	30	0
SZ1615DGN	M	MR092038	R1	CS6803AAT	150	0	500	30	0
SZ1615DGN	M	MR092038	R1	CS6803AAT	150	0	1000	30	0
SZ1615KDG	RA	MR093002	R1	CY2308SXC-1	150	0	500	29	0
SZ1615KDG	RA	MR093002	R1	CY2308SXC-1	150	0	1000	29	0
SZ24315BGN	RA	MR093011	R1	CY7C63743C-SXC	150	0	500	30	0
SZ24315BGN	RA	MR093011	R1	CY7C63743C-SXC	150	0	1000	30	0
SZ32457BLN	R	MR093019	R1	CY62128ELL-45SXIT	150	0	500	27	0
SZ32457BLN	R	MR093019	R1	CY62128ELL-45SXIT	150	0	1000	27	0
Summary for Package Family: SOIC (Pb-Free)			48	records					
Sum								3032	0
SSOP									
O483ABXAGN	R	MR092029	R1	CY2318ANZPVC-11T	150	0	500	30	0
O483ABXAGN	R	MR092029	R1	CY2318ANZPVC-11T	150	0	1000	30	0
O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	150	0	500	30	0
O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	150	0	1000	30	0
Summary for Package Family: SSOP			4	records					
Sum								120	0
SSOP (Pb-Free)									
SP483AGAN	R	084703	R1	CY8C20566-24PVXI	150	0	500	76	0
SP483AGAN	R	084703	R1	CY8C20566-24PVXI	150	0	1500	74	0
SP483AGAN	R	084703	R1	CY8C20566-24PVXI	150	0	1000	75	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	150	0	1500	72	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	150	0	2000	68	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	150	0	1500	80	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	150	0	2000	80	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	150	0	2500	80	0
SP2824HAN	T	MR084021	R1	CY8C24533-24PVXI	150	0	500	80	0
SP2824HAN	T	MR084021	R1	CY8C24533-24PVXI	150	0	1000	80	0
SP483ABBAN	R	MR084030	R1	CY7C63413C-PVXC	150	0	500	80	0
SP483ABBAN	R	MR084030	R1	CY7C63413C-PVXC	150	0	1000	80	0
SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	150	0	500	80	0
SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	150	0	1000	80	0
SP2822BGL	M	MR084059	R1	CY8C29466-24PVXA	150	0	1000	80	0
SP483EBBAL	R	MR091005	R1	CY8C27643-24PVXI	150	0	500	80	0
SP483EBBAL	R	MR091005	R1	CY8C27643-24PVXI	150	0	1000	80	0
SP2822BGL	M	MR091006	R1	CY8C27443-12PVXE	150	0	1000	80	0

SP2822BGL	M	MR091042	R1	CP6801ATT	150	0	1000	80	0
SP28214GL	T	MR091057	R1	CY7C64215-28PVXC	150	0	500	80	0
SP28214GL	T	MR091057	R1	CY7C64215-28PVXC	150	0	1000	80	0
SP483EBBAL	R-CML	MR092004	R1	CY8C29666-24PVXIT	150	0	500	30	0
SP483EBBAL	R-CML	MR092004	R1	CY8C29666-24PVXIT	150	0	1000	30	0
SP282ABAGN	RA	MR092035	R1	CY8C24423A-24PVXIT	150	0	500	30	0
SP282ABAGN	RA	MR092035	R1	CY8C24423A-24PVXIT	150	0	1000	30	0
SP2822BGL	M	MR092057	R1	CY8C29466-24PVXIES	150	0	500	30	0
SP2822BGL	M	MR092057	R1	CY8C29466-24PVXIES	150	0	1000	30	0
SP563DBBGN	R	MR093010	R1	CY7C66113C-PVXC	150	0	500	30	0
SP563DBBGN	R	MR093010	R1	CY7C66113C-PVXC	150	0	1000	30	0
SP483HAAGR	M	MR093024	R1	CY14B101L-SP45XCT	150	0	500	30	0
SP483HAAGR	M	MR093024	R1	CY14B101L-SP45XCT	150	0	1000	30	0
SP2814GAL	T	MR093027	R1	CS6835AT	150	0	500	30	0
SP2814GAL	T	MR093027	R1	CS6835AT	150	0	1000	30	0
SP2814HAL	M	MR093052	R1	CS6835AT	150	0	500	30	0
SP2814HAL	M	MR093052	R1	CS6835AT	150	0	1000	30	0
Summary for Package Family: SSOP (Pb-Free)			35	records					
Sum								2065	0
TQFP									
A32LXGXGB	Q	MR091043	R1	CY29948ACT	150	0	500	80	0
A32LXGXGB	Q	MR091043	R1	CY29948ACT	150	0	1000	80	0
A52AEGAGE	Q	MR092010	R1	CY29976AXI	150	0	500	30	0
A52AEGAGE	Q	MR092010	R1	CY29976AXI	150	0	1000	30	0
Summary for Package Family: TQFP			3	records					
Sum								140	0
TQFP (10mm X 10mm)									
AS64CGAGB	Q	MR091053	R1	CY7C4285V-15ASC	150	0	500	79	0
AS64CGAGB	Q	MR091053	R1	CY7C4285V-15ASC	150	0	1000	79	0
Summary for Package Family: TQFP (10mm X 10mm)			2	records					
Sum								158	0
TQFP (Pb-Free)									
AZ100RBBLN	R	MR084002	R1	CY7C1370D-167AXI	150	0	500	80	0
AZ100RBBLN	R	MR084002	R1	CY7C1370D-167AXI	150	0	1000	80	0
AZ44SFGAN	R	MR084010	R1	CY37032P44-125AXC	150	0	500	80	0
AZ44SFGAN	R	MR084010	R1	CY37032P44-125AXC	150	0	1000	80	0
AZ32LXGAN	Q	MR084017	R1	CY29948AXC	150	0	500	80	0
AZ32LXGAN	Q	MR084017	R1	CY29948AXC	150	0	1000	80	0
AZ32GXGAN	G	MR084042	R1	CY29940AXCT	150	0	500	79	0
AZ32GXGAN	G	MR084042	R1	CY29940AXCT	150	0	1000	79	0
AZ128SABLL	R	MR084054	R1	7C681000BC-**RAZC	150	0	500	80	0
AZ128SABLL	R	MR084054	R1	7C681000BC-**RAZC	150	0	1000	79	0
AZ32LXGAN	Q	MR091022	R1	CY29946AXCT	150	0	500	80	0
AZ32LXGAN	Q	MR091022	R1	CY29946AXCT	150	0	1000	80	0

AZ100RUBLN	R	MR091026	R1	CY7C1350G-133AXC	150	0	500	80	0
AZ100RUBLN	R	MR091026	R1	CY7C1350G-133AXC	150	0	1000	79	0
AZ44SGBGAN	RA	MR092001	R1	CY8C29566-24AXI	150	0	500	30	0
AZ44SGBGAN	RA	MR092001	R1	CY8C29566-24AXI	150	0	1000	30	0
AZ52ASGAL	Q	MR092008	R1	CY7B9973V-AXC	150	0	500	30	0
AZ52ASGAL	Q	MR092008	R1	CY7B9973V-AXC	150	0	1000	30	0
AZ32GXGAN	G	MR092033	R1	CY29940AXCT	150	0	500	30	0
AZ32GXGAN	G	MR092033	R1	CY29940AXCT	150	0	1000	30	0
AZ32GXGAN	G	MR092045	R1	CY29940AXC	150	0	500	30	0
AZ32GXGAN	G	MR092045	R1	CY29940AXC	150	0	1000	30	0
AZ144AAAGR	Q	MR092060	R1	CY7C057V-12AXC	150	0	500	30	0
AZ144AAAGR	Q	MR092060	R1	CY7C057V-12AXC	150	0	1000	30	0
AZ100KGAN	G	MR092064	R1	CY7C09169AV-12AXC	150	0	500	30	0
AZ100KGAN	G	MR092064	R1	CY7C09169AV-12AXC	150	0	1000	30	0
AZ32GXGAN	G	MR093031	R1	CY29940AXC	150	0	500	30	0
AZ32GXGAN	G	MR093031	R1	CY29940AXC	150	0	1000	30	0
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	150	0	500	30	0
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	150	0	1000	30	0
AZ44SFBGLN	R	MR093042	R1	CY7C53120E2-10AXI	150	0	500	30	0
AZ44SFBGLN	R	MR093042	R1	CY7C53120E2-10AXI	150	0	1000	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	150	0	500	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	150	0	1000	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	150	0	500	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	150	0	1000	30	0
Summary for Package Family: TQFP (Pb-Free)			36	records					
Sum								1776	0
TSOP (Pb-free)									
ZT48AKAALL	T	084612	R1	CY62177EV30LL	150	0	1000	80	0
ZT48AJAALL	T	091202	R4	CY62177EV30LL	150	0	500	80	0
ZT48AJAALL	T	091202	R4	CY62177EV30LL	150	0	1000	79	0
ZT32RAEBLN	RA	MR084006	R1	CG6708AMT	150	0	500	80	0
ZT32RAEBLN	RA	MR084006	R1	CG6708AMT	150	0	1000	80	0
ZT32RABALL	T	MR084057	R1	CY62128BNLL-55ZXI	150	0	500	80	0
ZT32RABALL	T	MR084057	R1	CY62128BNLL-55ZXI	150	0	1000	80	0
ZT28R2BBLN	R	MR084060	R1	CY62256VNLL-70ZXC	150	0	500	80	0
ZT28R2BBLN	R	MR084060	R1	CY62256VNLL-70ZXC	150	0	1000	80	0
ZT28R2BBLN	R	MR091012	R1	CY62256NLL-55ZXIT	150	0	500	80	0
ZT28R2BBLN	R	MR091012	R1	CY62256NLL-55ZXIT	150	0	1000	80	0
ZT32RAEBLN	RA	MR091014	R1	CY62128EV30LL-45ZXI	150	0	500	80	0
ZT32RAEBLN	RA	MR091014	R1	CY62128EV30LL-45ZXI	150	0	1000	80	0
ZT32RABALL	T	MR091021	R1	CY62128EV30LL-45ZXI	150	0	500	80	0
ZT32RABALL	T	MR091021	R1	CY62128EV30LL-45ZXI	150	0	1000	80	0
ZT28R2BBLN	R	MR092018	R1	CY62256VNLL-70ZXCT	150	0	500	30	0
ZT28R2BBLN	R	MR092018	R1	CY62256VNLL-70ZXCT	150	0	1000	30	0

ZT32RBBALL	T	MR092059	R1	CY62128ELL-45ZXAT	150	0	1000	30	0
ZT28R4BGL	R	MR092063	R1	CY7C1399BN-12ZXC	150	0	500	30	0
ZT28R4BGL	R	MR092063	R1	CY7C1399BN-12ZXC	150	0	1000	30	0
ZT32RAEDLN	RA	MR093006	R1	CY62128ELL-45ZXIT	150	0	500	30	0
ZT32RAEDLN	RA	MR093006	R1	CY62128ELL-45ZXIT	150	0	1000	29	0
ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	150	0	500	30	0
ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	150	0	1000	30	0
Summary for Package Family: TSOP (Pb-free)			24	records				1468	0
Sum								1468	0
TSOP I (Pb-Free)									
ZB32RHALN	R	093104	R1	CY62138FV30LL-45ZAXI	150	0	1000	80	0
ZB32RHBALN	R	MR084036	R1	CG7091AM	150	0	500	79	0
ZB32RHBALN	R	MR084036	R1	CG7091AM	150	0	1000	79	0
ZB32RHBALN	R	MR091031	R1	CG7086AM	150	0	500	80	0
ZB32RHBALN	R	MR091031	R1	CG7086AM	150	0	1000	80	0
ZB32RHBALN	R	MR092014	R1	CG7086AMT	150	0	500	30	0
ZB32RHBALN	R	MR092014	R1	CG7086AMT	150	0	1000	30	0
Summary for Package Family: TSOP I (Pb-Free)			7	records				458	0
Sum								458	0
TSOP II (Pb-Free)									
ZW444AHBLL	R	MR084007	R1	CG6850AM	150	0	500	80	0
ZW444AHBLL	R	MR084007	R1	CG6850AM	150	0	1000	80	0
ZW324CBLL	T	MR084025	R1	CG7092AM	150	0	500	80	0
ZW324CBLL	T	MR084025	R1	CG7092AM	150	0	1000	79	0
ZW544AALL	G	MR084038	R1	CY7C1061AV33-10ZXC	150	0	500	80	0
ZW544AALL	G	MR084038	R1	CY7C1061AV33-10ZXC	150	0	1000	80	0
ZW444AMLN	R	MR091013	R1	CY62147DV30LL-55ZSXET	150	0	1000	80	0
ZW544AALL	G	MR091027	R1	CS6729AT	150	0	500	80	0
ZW544AALL	G	MR091027	R1	CS6729AT	150	0	1000	80	0
ZW324GALL	T	MR091056	R1	CY7C1019DV33-10ZSXI	150	0	500	80	0
ZW324GALL	T	MR091056	R1	CY7C1019DV33-10ZSXI	150	0	1000	79	0
ZW324CBLL	T	MR092015	R1	CY62148EV30LL-45ZSXI	150	0	500	30	0
ZW324CBLL	T	MR092015	R1	CY62148EV30LL-45ZSXI	150	0	1000	30	0
ZW54BGALL	G	MR092043	R1A	CG7116AM	150	0	500	30	0
ZW54BGALL	G	MR092043	R1A	CG7116AM	150	0	1000	30	0
ZW444RAGN	R	MR093015	R1	CY62137VNL-70ZSXAT	150	0	1000	30	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	150	0	500	30	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	150	0	1000	30	0
Summary for Package Family: TSOP II (Pb-Free)			18	records				1088	0
Sum								1088	0
TSSOP									
Z1620GBAGN	RA	MR084016	R1	CY2309ZC-1HT	150	0	500	79	0
Z1620GBAGN	RA	MR084016	R1	CY2309ZC-1HT	150	0	1000	78	0
Z0811XAGB	M	MR084064	R1	CY2304NZZI-1	150	0	500	80	0

Z0811XAGB	M	MR084064	R1	CY2304NZZI-1	150	0	1000	80	0
Z1620GBAGN	RA	MR092022	R1	CY2309ZC-1HT	150	0	500	30	0
Z1620GBAGN	RA	MR092022	R1	CY2309ZC-1HT	150	0	1000	30	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	150	0	500	30	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	150	0	1000	29	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	150	0	500	27	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	150	0	1000	27	0
Summary for Package Family: TSSOP			10	records				490	0
Sum									
TSSOP (Pb-Free)									
ZZ1620GBAN	RA	MR084022	R1	CY2308ZXC-1HT	150	0	500	78	0
ZZ1620GBAN	RA	MR084022	R1	CY2308ZXC-1HT	150	0	1000	78	0
ZZ0812BGL	T	MR084024	R1	CY25100ZXC38T	150	0	500	80	0
ZZ0812BGL	T	MR084024	R1	CY25100ZXC38T	150	0	1000	79	0
ZZ1619GAN	RA	MR084065	R1	CY2309CZXI-1H	150	0	500	80	0
ZZ1619GAN	RA	MR084065	R1	CY2309CZXI-1H	150	0	1000	80	0
ZZ1620GBAN	RA	MR091018	R1	CY2309ZXC-1HT	150	0	500	80	0
ZZ1620GBAN	RA	MR091018	R1	CY2309ZXC-1HT	150	0	1000	80	0
ZZ0812BGL	T	MR091019	R1	CY25100ZXC38T	150	0	500	80	0
ZZ0812BGL	T	MR091019	R1	CY25100ZXC38T	150	0	1000	80	0
ZZ1620GBAN	RA	MR092020	R1	CY2309ZXC-1HT	150	0	500	30	0
ZZ1620GBAN	RA	MR092020	R1	CY2309ZXC-1HT	150	0	1000	30	0
ZZ0812BGL	T	MR092023	R1	CYIFS781BZXCT	150	0	500	30	0
ZZ0812BGL	T	MR092023	R1	CYIFS781BZXCT	150	0	1000	30	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	150	0	500	30	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	150	0	1000	30	0
Summary for Package Family: TSSOP (Pb-Free)			16	records				975	0
Sum									
VFBGA (0.75-0.8, 0.3mm)									
BV48AACAILE	AT	MR084063	R1	CY62157DV30LL-70BVI	150	0	500	80	0
BV48AACAILE	AT	MR084063	R1	CY62157DV30LL-70BVI	150	0	1000	80	0
BV48ABEAILE	A	MR091041	R1	CY62167EV30LL-45BVI	150	0	500	80	0
BV48ABEAILE	A	MR091041	R1	CY62167EV30LL-45BVI	150	0	1000	80	0
BV48ABEAILE	AT	MR092012	R1	CY62167EV30LL-45BVI	150	0	500	30	0
BV48ABEAILE	AT	MR092012	R1	CY62167EV30LL-45BVI	150	0	1000	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			6	records				380	0
Sum									
VFBGA (0.75-0.8, 0.3mm, Pb-Free)									
BZ56IAAAGL	AT-INDS	MR082055	R1	CY7C68053-56BAXI	150	0	1000	79	0
BZ48ABDALL	AT-CARSEM	MR083060	R1	CY62137EV30LL-45BVXI	150	0	1000	80	0
BZ56BGALL	RA	MR084011	R1	CY7C68013A-56BAXC	150	0	500	80	0
BZ56BGALL	RA	MR084011	R1	CY7C68013A-56BAXC	150	0	1000	80	0
BZ100DGALL	RA	MR084012	R1	CYWB0124AB-BVXIT	150	0	500	80	0
BZ100DGALL	RA	MR084012	R1	CYWB0124AB-BVXIT	150	0	1000	80	0

BZ48DAGLL	RA	MR084034	R1	CY62137FV30LL-45BVXIT	150	0	500	80	0
BZ48DAGLL	RA	MR084034	R1	CY62137FV30LL-45BVXIT	150	0	1000	80	0
BZ48CFAALL	G	MR084035	R1	CY62158EV30LL-45BVXI	150	0	500	80	0
BZ48CFAALL	G	MR084035	R1	CY62158EV30LL-45BVXI	150	0	1000	80	0
BZ56IAAAGL	AT	MR084071	R1	CY7C68053-56BAXIT	150	0	500	80	0
BZ56IAAAGL	AT	MR084071	R1	CY7C68053-56BAXIT	150	0	1000	80	0
BZ100DGALL	RA	MR084073	R1	CYWB0124AB-BVXIT	150	0	500	80	0
BZ100DGALL	RA	MR084073	R1	CYWB0124AB-BVXIT	150	0	1000	80	0
BZ100DGALL	RA	MR091015	R1	CYWB0124AB-BVXI	150	0	500	80	0
BZ100DGALL	RA	MR091015	R1	CYWB0124AB-BVXI	150	0	1000	80	0
BZ100DAALL	G	MR091028	R1	CS7129AMT	150	0	500	80	0
BZ100DAALL	G	MR091028	R1	CS7129AMT	150	0	1000	80	0
BZ48CFAALL	G	MR091029	R1	CY62157EV30LL-45BVXI	150	0	500	80	0
BZ48DAGLL	RA	MR091033	R1	CY62137FV30LL-45BVXIT	150	0	500	80	0
BZ48DAGLL	RA	MR091033	R1	CY62137FV30LL-45BVXIT	150	0	1000	80	0
BZ48ABEALL	AT	MR091034	R1	CY62167EV30LL-45BVXI	150	0	500	80	0
BZ48ABEALL	AT	MR091034	R1	CY62167EV30LL-45BVXI	150	0	1000	80	0
BZ48ABBLL	AT	MR092011	R1	CY62127DV30LL-55BVXIT	150	0	500	30	0
BZ48ABBLL	AT	MR092011	R1	CY62127DV30LL-55BVXIT	150	0	1000	30	0
BZ48DAGLL	RA	MR092016	R1	CY62137FV30LL-45BVXIT	150	0	500	30	0
BZ48DAGLL	RA	MR092016	R1	CY62137FV30LL-45BVXIT	150	0	1000	30	0
BZ48CHAALL	G	MR092031	R1	CY62126EV30LL-55BVXE	150	0	1000	30	0
BZ100HAALL	RA	MR092061	R1	CYWB0224ABS-BVXI	150	0	500	30	0
BZ100HAALL	RA	MR092061	R1	CYWB0224ABS-BVXI	150	0	1000	30	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	150	0	500	31	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	150	0	1000	31	0
BZ48CFBALL	G	MR093025	R1	CY62157EV30LL-45BVXA	150	0	1000	30	0
BZ56BGALL	RA	MR093036	R1	CY7C68013A-56BAXC	150	0	500	29	0
BZ56BGALL	RA	MR093036	R1	CY7C68013A-56BAXC	150	0	1000	29	0
BZ48ABCALL	AT	MR093059	R1	CG6851AM	150	0	500	30	0
BZ48ABCALL	AT	MR093059	R1	CG6851AM	150	0	1000	30	0
BZ56BGALL	RA	RR091013	R1	CY7C68013A-56BAXC	150	0	500	77	0
BZ56BGALL	RA	RR091013	R1	CY7C68013A-56BAXC	150	0	1000	77	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)			39	records					
Sum							2413	0	

Summary Detail -- PCT Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
FBGA (0.75-0.8, 0.3mm, Pb-free)											
BK48DQBLL	G	MR084056	R1	CG7081AM	121	0	168	80	0		
BK48CDGLL	G	MR091060	R1	CY7C1041CV33-10BAXA	121	0	168	78	0		
BK48CDGLL	G	MR092042	R1	CY7C1041CV33-10BAXAT	121	0	96	29	0		
BK48CDGLL	G	MR092042	R1	CY7C1041CV33-10BAXAT	121	0	168	29	0		
BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	121	0	168	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)				5	records						
Sum								246	0		
FBGA (1.0-1.27)											
BB165BUALE	G	091706	R3A	CY7C1512KV18-*BZCES	121	0	168	76	0		
BB165BUALE	G	091706	R3A	CY7C1512KV18-*BZCES	121	0	288	71	0		
BB172BALE	G	MR084070	R1A	CY7C0852V-133BBI	121	0	168	79	0		
BB100CAALE	G	MR091023	R1	CYP15G0101DXB-BBC	121	0	168	77	0		
BB100CAALE	G	MR091023	R1A	CYP15G0101DXB-BBC	121	0	168	77	0		
BB165ALLE	G	MR092017	R1	CY7C1312BV18-200BZC	121	0	168	30	0		
BB165AVLE	RA	MR092058	R1	CY7C1313TV18-250BZC	121	0	168	27	0		
BB165ALLE	G	MR092076	R1A	CY7C1315BV18-200BZC	121	0	168	30	0		
Summary for Package Family: FBGA (1.0-1.27)				8	records						
Sum								467	0		
FBGA (1.0-1.27, Pb-free)											
BW165AZALL	AT	083601	R1	CY1512V18-200BZXC	121	0	168	73	0		
BW165AZALL	AT	083601	R2	CY7C1512V18-200BZXC	121	0	168	74	0		
BW165BJALL	G	091706	R1A	CY7C1512KV18-*BZCES	121	0	168	77	0		
BW165BJALL	G	091706	R1A	CY7C1512KV18-*BZCES	121	0	288	64	0		
BW165BJALL	G	091706	R2A	CY7C1512KV18-*BZCES	121	0	168	78	0		
BW165BJALL	G	091706	R2A	CY7C1512KV18-*BZCES	121	0	288	70	0		
BW100EAGL	G	MR083027	R1A	CYP15G0101DXB-BBXC	121	0	168	77	0		
BW100EAGL	G	MR084067	R1	CYP15G0101DXB-BBXC	121	0	168	80	0		
BW100AAALL	AT	MR091061	R1	CYP15G0101DXB-BBXI	121	0	168	78	0		
BW100CAGL	G	MR092052	R1	CY7B994V-2BBXIT	121	0	168	30	0		
BW100EAGL	G	MR093033	R1	CYP15G0101DXB-BBXI	121	0	168	30	0		
Summary for Package Family: FBGA (1.0-1.27, Pb-free)				11	records						
Sum								731	0		
FLIPCHIP CSP (Pb-Free)											
FN30A	AU	090802	R1	CY8C20634-12FDXIT	121	0	96	75	0		
FN30A	AU	090802	R2	CY8C20634-12FDXIT	121	0	96	75	0		
Summary for Package Family: FLIPCHIP CSP (Pb-Free)				2	records						
Sum								150	0		
PBGA (1.27)											

BG119SALE	G	MR084037	R1	CY7C1354C-166BGC	121	0	168	80	0
BG119ADALE	AT	MR084081	R1	CY7C1354C-166BGC	121	0	168	80	0
BG119ADALE	AT	MR084081	R2	CY7C1354C-166BGC	121	0	168	80	0
BG119ADALE	AT	MR084081	R3	CY7C1354C-166BGC	121	0	168	68	0
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	121	0	168	30	0
Summary for Package Family: PBGA (1.27)			5	records					
Sum								338	0
PBGA (1.27, Pb-free)									
BY119YALL	G	MR092050	R1	CY7C1062DV33-10BGXI	121	0	168	25	0
Summary for Package Family: PBGA (1.27, Pb-free)			1	records					
Sum								25	0
PBGA (Cavity/Heat Sink)									
BL256L2GE	G	MR084066	R1	CYP15G0401DXB-BGI	121	0	168	80	0
Summary for Package Family: PBGA (Cavity/Heat Sink)			1	records					
Sum								80	0
PDIP (Pb-Free)									
PZ286EAAGN	X	092014	R1	CY62256NLL-70PXC	121	0	168	77	0
PZ183DBGN	RA	MR083022	R1A	CY7C63723C-PXC	121	0	168	80	0
PZ243AAAGN	X	MR084028	R1	CY7C63743C-PXC	121	0	168	80	0
PZ283AAAGN	X	MR084031	R1	CY8C27443-24PXI	121	0	168	80	0
PZ183DBGN	RA	MR084050	R1	CS6632AF	121	0	168	80	0
PZ183DBGN	RA	MR091008	R1	CY7C63723C-PXC	121	0	168	80	0
PZ283ACAGL	X	MR091039	R1	CY7C199CN-15PXC	121	0	168	80	0
PZ283AAAGN	X	MR091044	R1	CG6993AM	121	0	168	80	0
PZ283AAAGN	X	MR092030	R1	CY8C24423A-24PXI	121	0	168	30	0
PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	121	0	168	30	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	121	0	168	30	0
Summary for Package Family: PDIP (Pb-Free)			11	records					
Sum								727	0
PLCC									
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	121	0	336	80	0
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	121	0	504	80	0
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	121	0	672	80	0
Summary for Package Family: PLCC			3	records					
Sum								240	0
PLCC (Pb-Free)									
JZ52SFGAN	M	MR084046	R1	7C136GT-**MJXCT	121	0	168	80	0
JZ28SBGAN	M	MR091037	R1	CY7B933-JXC	121	0	168	80	0
Summary for Package Family: PLCC (Pb-Free)			2	records					
Sum								160	0
PQFP (Pb-free)									
NZ52DXGAN	G	MR084053	R1	7C136GT-**GNZC	121	0	168	80	0
NZ52DXGAN	G	MR091025	R1	CY7C136-55NXCT	121	0	168	80	0
NZ52DXGAN	G	MR093032	R1	CY7C136-55NXC	121	0	168	30	0

Summary for Package Family: PQFP (Pb-free)			3	records						
Sum									190	0
QFN (0.4mm, Saw Type, Pb-free)										
LN32AAAAAL	CA	MR084040	R1	CP7052ATT	121	0	168	80	0	
LN32AAAAAL	CA	MR091052	R1	CP7052BTT	121	0	168	80	0	
LN32AAAAAL	CA	MR092048	R1	CP7052BTT	121	0	168	30	0	
Summary for Package Family: QFN (0.4mm, Saw Type, Pb-free)			3	records						
Sum									190	0
QFN (0.6mm, Punch Type, Pb-Free)										
LK32AABAG	L	MR084008	R1	CY8C20434-12LKXI	121	0	168	80	0	
LK32AABAGL	L	MR091011	R1	CY8C20434-12LKXIT	121	0	168	76	0	
LK32AABAGL	L	MR092044	R1	CY8C20434-12LKXIT	121	0	168	30	0	
Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)			3	records						
Sum									186	0
QFN (0.6mm, Saw Type, Pb-Free)										
LQ32DAGLL	CA	083401	R2	CY8C20466-24LQXI	121	0	288	77	0	
LQ32DAGLL	CA	083401	R4	CY8C20466-24LQXI	121	0	168	77	0	
LQ32DAGLL	CA	083401	R4	CY8C20466-24LQXI	121	0	288	77	0	
LQ32ACAAGL	MB	083909	R1	CY8C204345-12LQXI	121	0	168	80	0	
LQ32ACAAGL	MB	083909	R2	CY8C204345-12LQXI	121	0	168	80	0	
LQ24AAAAAL	RA	084602	R1	CY8C20324-12LQXI	121	0	168	77	0	
LQ24AAAAAL	RA	084602	R4	CY8C20324-12LQXI	121	0	168	80	0	
LQ32ACAAGL	M	084609	R1	CY24292LFXI	121	0	168	80	0	
LQ24ADAAGL	CA	084701	R1	CY8CTST200-24LQXI	121	0	168	77	0	
LQ24ADAAGL	CA	084701	R1	CY8CTST200-24LQXI	121	0	168	75	0	
LQ24ADAAGL	CA	084701	R1	CY8CTST200-24LQXI	121	0	288	76	0	
LQ24ADAAGL	CA	084701	R2	CY8C20366-24LQXI	121	0	168	76	0	
LQ24ADAAGL	CA	084701	R3	CY8C20346-24LQXI	121	0	168	75	0	
LQ32DAGLL	CA	090301	R1A (1)	CY8C20466-24LQXI	121	0	168	77	0	
LQ32DAGLL	CA	090301	R1A (1)	CY8C20466-24LQXI	121	0	288	77	0	
LQ32DAGLL	CA	090301	R1B (1)	CY8C20466-24LQXI	121	0	168	77	0	
LQ32DAGLL	CA	090301	R1B (1)	CY8C20466-24LQXI	121	0	288	77	0	
LQ32DAGLL	CA	090301	R1C (1)	CY8C20466-24LQXI	121	0	168	76	0	
LQ32DAGLL	CA	090301	R1C (1)	CY8C20466-24LQXI	121	0	288	75	0	
LQ32DAGLL	CA	090301	R2B (1)	CY8C20466-24LQXI	121	0	168	77	0	
LQ32DAGLL	CA	090301	R2B (1)	CY8C20466-24LQXI	121	0	288	77	0	
LQ24AEAAGL	M	091203	R1	CY8C203345-12LQXIKM	121	0	168	77	0	
LQ24ABAAL	AT	MR084039	R1	CY8C20324-12LQXI	121	0	168	79	0	
LQ24ABAAL	AT	MR091040	R1	CP6836ATT	121	0	168	80	0	
LQ24ABAAL	AT	MR092009	R1	CY8C20324-12LQXI	121	0	168	30	0	
LQ32DAGLL	CA	MR092054	R1	CY8C20466-24LQXI	121	0	168	30	0	
LQ32DAGLL	CA	MR093044	R1	CY8C20466-24LQXI	121	0	168	30	0	
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	121	0	168	30	0	

Summary for Package Family: QFN (0.6mm, Saw Type, 28 Pb-Free)
Sum

records

1976 0

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

LG16AAAAAL	M	084404	R1	CY7C64316-16LKXC	121	0	168	74	0
LG16AAAAAL	M	084404	R1	CY7C64316-16LKXC	121	0	168	76	0
LG16AAAAAL	M	084404	R1	CY7C64316-16LKXC	121	0	288	73	0
LG16AAAAAL	M	084404	R2	CY8CTST200-16LGXI	121	0	168	76	0
LG16AAAAAL	M	084404	R3	CY7C64315-16LKXC	121	0	168	72	0
LG16AAAAAL	MB	093905	R1	CY8C20246-24LKXI	121	0	168	78	0
LG16AAAAAL	MB	093905	R1	CY8C20246-24LKXI	121	0	288	68	0
LG16AAAAAL	MB	093905	R2	CY8C20246-24LKXI	121	0	168	80	0
LG16AAAAAL	MB	093905	R2	CY8C20246-24LKXI	121	0	288	70	0
LG16AAAAAL	MB	093905	R4	CY8C20246-24LKXI	121	0	168	87	0
LG16AAAAAL	MB	093905	R4	CY8C20246-24LKXI	121	0	288	75	0
LG16AAAAAL	M	MR084013	R1	CY8C20234-12LKXI	121	0	168	80	0
LG16AAAAAL	LG	MR092053	R1	CY8C20180-LDX2I	121	0	168	30	0

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

records

939 0

QFN (Punch Type, Pb-Free)

LY56DGAGL	L	090405	R1	CY8C24894-24LFXI	121	0	96	80	0
LY56DGAGL	L	090405	R1	CY8C24894-24LFXI	121	0	168	80	0
LY56DGAGL	L	090405	R2	CY8C24894-24LFXI	121	0	96	80	0
LY56DGAGL	L	090405	R2	CY8C24894-24LFXI	121	0	168	80	0
LY56DGAGL	L	090405	R3	CY8C24894-24LFXI	121	0	96	80	0
LY56DGAGL	L	090405	R3	CY8C24894-24LFXI	121	0	168	80	0
LY68AGABGL	L	MR084009	R1	CS6656AAT	121	0	168	78	0
LY40BGAGL	L	MR084014	R1	CYRF6936-40LFXC	121	0	168	80	0
LY32AAAGR	L	MR084015	R1	CY8C21434-24LFXI	121	0	168	80	0
LY68AGAAAGL	L	MR091024	R1	CY8CLED04-68LFXI	121	0	168	80	0
LY40ABGAGL	L	MR091030	R1	CS7067AT	121	0	168	80	0
LY32AAAGR	L	MR091032	R1	CS6624AA	121	0	168	80	0
LY40CGAGR	L	MR092032	R1	CYRF69103-40LFXC	121	0	168	30	0
LY32AAAGR	L	MR092041	R1	CY8C21434-24LFXI	121	0	168	30	0
LY32AAAGR	L	MR093017	R1	CP6759AMT	121	0	168	30	0
LY48CGAGL	L	MR093046	R1	CY8C27643-24LFXIT	121	0	168	30	0

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

records

998 0

QFN (Saw Type, Pb-free)

LT56ABAAGL	CA-Malaysia	075103	R2	CY8CLED04DOCD1-56ES	121	0	168	90	0
LT56ABAAGL	CA-Malaysia	075103	R2	CY8CLED04DOCD1-56ES	121	0	288	90	0
LT56ABAAGL	CA	075103	R3	CY8CLED04D01-56LTXI	121	0	168	90	0
LT56ABAAGL	CA	075103	R3	CY8CLED04D01-56LTXI	121	0	288	90	0

LT48ABAAGR	CA	083701	R1	CYWUSB6934-48LTXC	121	0	168	77	0
LT48ABAAGR	CA	083701	R2	CYWUSB6934-48LTXC	121	0	168	77	0
LT32BAAGGL	M	083907	R1	CY8C21434-24LTXI	121	0	168	80	0
LT32BAAGGL	M	083907	R2	CY8C21434-24LTXI	121	0	168	80	0
LT68ABCAGL	AE	084005	R1	CY8C24994-24LTXI	121	0	168	80	0
LT56BCAAGL	AE	084005	R3	CY7C65640A-LTXC	121	0	168	80	0
LT68ABCAGL	AE	084005	R4	CY8C24994-24LTXI	121	0	168	80	0
LT40ACAAGL	AE	084006	R1	CYRF6936-40LTXC	121	0	168	74	0
LT40ACAAGL	AE	084006	R3	CYRF6936-40LTXC	121	0	168	79	0
LT40ACAAGL	AE	084006	R4	CYRF6936-40LTXC	121	0	168	80	0
LT32BBACGL	AE	084007	R1	CY8C21434-24LTXI	121	0	168	80	0
LT32BBACGL	AE	084007	R3	CY8C21434-24LTXI	121	0	168	80	0
LT56BABBGL	MB	090603	R1	CY7C65640A-LTXC	121	0	168	77	0
LT48ABBAAL	MB	090603	R3	CYWUSB6934-48LTXC	121	0	168	77	0
LT32BAABGL	RA	092002	R1	CY8C21434-24LTXI	121	0	168	80	0
LT32BAAAGL	CA	MR084041	R1	CG7032AA	121	0	168	80	0
LT32BAABGL	RA	MR091009	R1	CG7032AA	121	0	168	80	0
LT32BAABGL	RA	MR092034	R1	CY8C21434-24LTXI	121	0	168	30	0
LT32BAAGGL	M	MR092051	R1	CG6644FA	121	0	168	30	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	121	0	168	30	0
Summary for Package Family: QFN (Saw Type, Pb-free)				24	records				
Sum								1791	0
QSOP (Pb-Free)									
SQ2414ABGN	R	MR084027	R1	CY7C60223-QXC	121	0	168	80	0
SQ2414ABGN	R	MR091002	R1	CY7C63743C-QXC	121	0	168	80	0
SQ2414ABGN	R	MR092005	R1	CY7C63743C-QXC	121	0	168	30	0
Summary for Package Family: QSOP (Pb-Free)				3	records				
Sum								190	0
RTSOP (Pb-free)									
ZY28R2BLN	R	MR091010	R1	CY62256NLL-70ZRXIT	121	0	168	80	0
Summary for Package Family: RTSOP (Pb-free)				1	records				
Sum								80	0
SNC (Pb-Free)									
SY2831BBLN	R	091302	R2	7C622565EK-**RSYIB	121	0	168	80	0
SY2831BBLN	R	091302	R2	7C622565EK-**RSYIB	121	0	288	80	0
SY2831BBLN	R	MR084004	R1	CG7107AM	121	0	168	52	0
SY2831BBLN	R	MR091007	R1	CY62256NLL-70SNXCT	121	0	168	80	0
SY2831BBLN	R	MR092021	R1	CY62256NLL-70SNXCT	121	0	168	30	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	121	0	96	30	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	121	0	168	30	0
Summary for Package Family: SNC (Pb-Free)				7	records				
Sum								382	0
SOIC									
S0815PBAGN	RA	MR091017	R1	CY2305SI-1HT	121	0	168	80	0

S0815PBAGN	RA	MR092027	R1	CY2305SC-1HT	121	0	168	30	0
Summary for Package Family: SOIC			2	records					
Sum								110	0
SOIC (J-Lead)									
V243GAAAGN	X	090302	R1	CY7C197BN-15VC	121	0	168	77	0
V243GAAAGN	X	090302	R2	CY7C197BN-15VC	121	0	168	71	0
V243GAAAGN	X	090302	R4	CY7C197BN-15VC	121	0	168	80	0
V32418BLL	R	MR092028	R1	CY7C109BNL-15VC	121	0	168	30	0
Summary for Package Family: SOIC (J-Lead)			4	records					
Sum								258	0
SOIC (J-Lead, Pb-Free)									
VZ24	X	091906	R1A	CY7C197BN	121	0	168	80	0
VZ24	X	091906	R2A	CY7C197BN-15VC	121	0	168	80	0
VZ28315PLL	R	092003	R1	CY7C192-15VXC	121	0	168	77	0
VZ3646BGLL	R	MR084001	R1	CY7C1049CV33-10VXCT	121	0	168	80	0
VZ28313BLN	R	MR084019	R1	CY7C1399BN-12VXIT	121	0	168	80	0
VZ28313BLN	R	MR091045	R1	CY7C1399BN-12VXCT	121	0	168	80	0
VZ3649BALN	R	MR091046	R1	CG7119AM	121	0	168	80	0
VZ32420BLL	R	MR092036	R1	CY7C1019DV33-10VXI	121	0	168	30	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	121	0	168	30	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	121	0	168	30	0
Summary for Package Family: SOIC (J-Lead, Pb-Free)			10	records					
Sum								647	0
SOIC (Pb-Free)									
SZ815VAGN	M	071904	R2	CY24C16L-3SXIES	121	0	168	77	0
SZ815VAGN	M	071904	R2	CY24C16L-3SXIES	121	0	288	77	0
SZ815VAGN	M	071904	R3	CY24C16L-3SXIES	121	0	168	77	0
SZ815VAGN	M	071904	R3	CY24C16L-3SXIES	121	0	288	77	0
SZ815VAGN	M	071904	R4	CY24C16L-3SXIES	121	0	168	77	0
SZ815VAGN	M	071904	R4	CY24C16L-3SXIES	121	0	288	77	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	121	0	336	80	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	121	0	504	80	0
SZ2035BAL	R	MR084005	R1	CY8C24223A-24SXI	121	0	168	80	0
SZ815DAGN	M	MR084018	R1	CY2304SXI-2	121	0	168	79	0
SZ1615BKGN	RA	MR084020	R1	CY2309SXC-1HT	121	0	168	80	0
SZ183CBGAN	RA	MR084026	R1	CY7C63723C-SXC	121	0	168	80	0
SZ24315BGN	RA	MR084029	R1	CY7C63743C-SXC	121	0	168	80	0
SZ24312BGN	R	MR084033	R1	CY7C63743C-SXC	121	0	168	80	0
SZ815PABGN	RA	MR084061	R1	CY25560SXCT	121	0	168	80	0
SZ1615FAL	T	MR084072	R1	CY2309CSXC-1T	121	0	168	80	0
SZ2035BAL	R	MR091001	R1	CY8C27243-24SXI	121	0	168	80	0
SZ183CBGAN	RA	MR091003	R1	CY7C63723C-SXC	121	0	168	80	0
SZ32457BLN	R	MR091004	R1	CY62128ELL-45SXIT	121	0	168	80	0
SZ1615BKGN	RA	MR091016	R1	CY2308SXC-2T	121	0	168	80	0

SZ1615EGN	M	MR091020	R1	CY2309SXI-1HT	121	0	168	79	0
SZ1615FAL	T	MR091058	R1	CY23EP09SXC-1HT	121	0	168	80	0
SZ2035BAL	R	MR092003	R1	CY8C27243-24SXI	121	0	168	30	0
SZ324513BN	R	MR092006	R1	CY7C53120E2-10SXI	121	0	168	29	0
SZ183CBGAN	RA	MR092024	R1	CY7C63723C-SXC	121	0	168	30	0
SZ1615FAL	T	MR092025	R1	CY23EP09SXC-1HT	121	0	168	30	0
SZ1615DGN	M	MR092038	R1	CS6803AAT	121	0	168	30	0
SZ1615KDGN	RA	MR093002	R1	CY2308SXC-1	121	0	168	30	0
SZ24315BGN	RA	MR093011	R1	CY7C63743C-SXC	121	0	168	30	0
SZ32457BLN	R	MR093019	R1	CY62128ELL-45SXIT	121	0	168	30	0
SZ324516LL	R	RR084008	R4	CG6727AM	121	0	96	76	0
SZ324516LL	R	RR084008	R4	CG6727AM	121	0	168	76	0
Summary for Package Family: SOIC (Pb-Free)			32	records					
Sum								2131	0
SSOP									
O483ABXAGN	R	MR092029	R1	CY2318ANZPVC-11T	121	0	168	30	0
O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	121	0	168	30	0
Summary for Package Family: SSOP			2	records					
Sum								60	0
SSOP (Pb-Free)									
SP483AGAN	R	084703	R1	CY8C20566-24PVXI	121	0	168	77	0
SP483AGAN	R	084703	R1	CY8C20566-24PVXI	121	0	288	76	0
SP483ACGAN	R	084703	R2	CY8CTMG200-48PVXI	121	0	168	77	0
SP483ACGAN	R	084703	R2	CY8CTMG200-48PVXI	121	0	288	75	0
SP483ACGAN	R	084703	R3	CY8C20546-24PVXI	121	0	168	77	0
SP483ACGAN	R	084703	R3	CY8C20546-24PVXI	121	0	288	75	0
SP483ACGAN	R	090301	R1A	CY8C20566-24PVXI	121	0	168	77	0
SP483ACGAN	R	090301	R1A	CY8C20566-24PVXI	121	0	288	77	0
SP483ACGAN	R	090301	R1B	CY8C20566-24PVXI	121	0	168	76	0
SP483ACGAN	R	090301	R1B	CY8C20566-24PVXI	121	0	288	76	0
SP483ACGAN	R	090301	R1C	CY8C20566-24PVXI	121	0	168	77	0
SP483ACGAN	R	090301	R1C	CY8C20566-24PVXI	121	0	288	77	0
SP483ACGAN	R	090301	R2B	CY8C20566-24PVXI	121	0	168	77	0
SP483ACGAN	R	090301	R2B	CY8C20566-24PVXI	121	0	288	77	0
SP483EBBAL	R	090604	R1	CY7C1401	121	0	168	82	0
SP483EBBAL	R	090604	R1	CY7C1401	121	0	288	82	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	121	0	336	79	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	121	0	504	79	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	121	0	672	78	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	121	0	336	80	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	121	0	504	80	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	121	0	672	80	0
SP2824HAN	T	MR084021	R1	CY8C24533-24PVXI	121	0	168	79	0
SP483ABBAN	R	MR084030	R1	CY7C63413C-PVXC	121	0	168	80	0

SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	121	0	168	80	0
SP2822BGL	M	MR084059	R1	CY8C29466-24PVXA	121	0	96	80	0
SP2822BGL	M	MR084059	R1	CY8C29466-24PVXA	121	0	168	78	0
SP483EBBAL	R	MR091005	R1	CY8C27643-24PVXI	121	0	168	80	0
SP2822BGL	M	MR091006	R1	CY8C27443-12PVXE	121	0	96	80	0
SP2822BGL	M	MR091006	R1	CY8C27443-12PVXE	121	0	168	80	0
SP2822BGL	M	MR091042	R1	CP6801ATT	121	0	96	80	0
SP28214GL	T	MR091057	R1	CY7C64215-28PVXC	121	0	168	80	0
SP483EBBAL	R-CML	MR092004	R1	CY8C29666-24PVXIT	121	0	168	30	0
SP282ABAGN	RA	MR092035	R1	CY8C24423A-24PVXIT	121	0	168	30	0
SP2822BGL	M	MR092057	R1	CY8C29466-24PVXIES	121	0	168	30	0
SP563DBBGN	R	MR093010	R1	CY7C66113C-PVXC	121	0	168	30	0
SP483HAAGR	M	MR093024	R1A	CY14B101L-SP45XCT	121	0	168	27	0
SP2814GAL	T	MR093027	R1	CS6835AT	121	0	168	28	0
SP2814HAL	M	MR093052	R1	CS6835AT	121	0	168	30	0
SP483AGAN	R	RR084008	R1	CS6681AM	121	0	96	77	0
SP483AGAN	R	RR084008	R1	CS6681AM	121	0	168	77	0
Summary for Package Family: SSOP (Pb-Free)			41	records					
Sum								2867	0
TQFP									
A32LXGXGB	Q	MR091043	R1	CY29948ACT	121	0	168	80	0
A52AEGAGE	Q	MR092010	R1	CY29976AXI	121	0	168	30	0
Summary for Package Family: TQFP			2	records					
Sum								110	0
TQFP (10mm X 10mm)									
AS64CGAGB	Q	MR091053	R1	CY7C4285V-15ASC	121	0	168	78	0
Summary for Package Family: TQFP (10mm X 10mm)			1	records					
Sum								78	0
TQFP (Pb-Free)									
AZ44SGGAN	R	082201	R1	CY8C22545-24AXI	121	0	168	77	0
AZ100RBBLN	R	MR084002	R1	CY7C1370D-167AXI	121	0	168	79	0
AZ44SFGAN	R	MR084010	R1	CY37032P44-125AXC	121	0	168	80	0
AZ32LXGAN	Q	MR084017	R1	CY29948AXC	121	0	168	80	0
AZ32GXGAN	G	MR084042	R1	CY29940AXCT	121	0	168	78	0
AZ128SABLL	R	MR084054	R1	7C681000BC-**RAZC	121	0	168	80	0
AZ32LXGAN	Q	MR091022	R1	CY29946AXCT	121	0	168	80	0
AZ100RUBLN	R	MR091026	R1	CY7C1350G-133AXC	121	0	168	77	0
AZ44SGBGAN	RA	MR092001	R1	CY8C29566-24AXI	121	0	168	30	0
AZ52ASGAL	Q	MR092008	R1	CY7B9973V-AXC	121	0	168	30	0
AZ32GXGAN	G	MR092033	R1	CY29940AXCT	121	0	168	30	0
AZ32GXGAN	G	MR092045	R1	CY29940AXC	121	0	168	30	0
AZ144AAAGR	Q	MR092060	R1	CY7C057V-12AXC	121	0	168	30	0
AZ100KGAN	G	MR092064	R1	CY7C09169AV-12AXC	121	0	168	29	0
AZ32GXGAN	G	MR093031	R1	CY29940AXC	121	0	168	30	0

AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	121	0	168	30	0
AZ44SFBGLN	R	MR093042	R1	CY7C53120E2-10AXI	121	0	168	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	121	0	168	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	121	0	168	30	0

Summary for Package Family: TQFP (Pb-Free)

19

records

Sum 960 0

TSOP (Pb-free)

ZT48AKAALL	T	084612	R1	CY62177EV30LL	121	0	168	80	0
ZT48AKAALL	T	084612	R1	CY62177EV30LL	121	0	96	80	0
ZT48AKAALL	T	084612	R2	CY62177EV30LL	121	0	168	80	0
ZT48AKAALL	T	084612	R2	CY62177EV30LL	121	0	96	80	0
ZT48AKAALL	T	084612	R3	CY62177EV30LL	121	0	168	80	0
ZT48AKAALL	T	084612	R3	CY62177EV30LL	121	0	96	80	0
ZT48AJAALL	T	091202	R1	CY62177EV30LL	121	0	168	77	7

091202-1P1

1-Broken Wire at Neck, 1-Particle Defect, 5-Single Bit (No FA performed)

ZT32RAEBLN	RA	MR084006	R1	CG6708AMT	121	0	168	80	0
ZT32RABALL	T	MR084057	R1	CY62128BNLL-55ZXI	121	0	168	67	0
ZT28R2BBLN	R	MR084060	R1	CY62256VNLL-70ZXC	121	0	168	80	0
ZT28R2BBLN	R	MR091012	R1	CY62256NLL-55ZXIT	121	0	168	80	0
ZT32RAEBLN	RA	MR091014	R1	CY62128EV30LL-45ZXI	121	0	168	77	0
ZT32RABALL	T	MR091021	R1	CY62128EV30LL-45ZXI	121	0	168	79	0
ZT28R2BBLN	R	MR092018	R1	CY62256VNLL-70ZXCT	121	0	168	30	0
ZT32RBBALL	T	MR092059	R1	CY62128ELL-45ZXAT	121	0	96	30	0
ZT32RBBALL	T	MR092059	R1	CY62128ELL-45ZXAT	121	0	168	30	0
ZT28R4BGL	R	MR092063	R1A	CY7C1399BN-12ZXCT	121	0	168	30	0
ZT32RAEDLN	RA	MR093006	R1	CY62128ELL-45ZXIT	121	0	168	30	0
ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	121	0	168	30	0

Summary for Package Family: TSOP (Pb-free)

19

records

Sum 1200 7

TSOP I (Pb-Free)

ZB32RHALN	R	093104	R1	CY62138FV30LL-45ZAXI	121	0	96	79	0
ZB32RHALN	R	093104	R1	CY62138FV30LL-45ZAXI	121	0	168	79	0
ZB32RHALN	R	093104	R2	CY62138FV30LL-45ZAXI	121	0	96	80	0
ZB32RHALN	R	093104	R2	CY62138FV30LL-45ZAXI	121	0	168	80	0
ZB32RHALN	R	093104	R3	CY62138FV30LL-45ZAXI	121	0	96	80	0
ZB32RHALN	R	093104	R3	CY62138FV30LL-45ZAXI	121	0	168	80	0
ZB32RHBALN	R	MR084036	R1	CG7091AM	121	0	168	80	0
ZB32RHBALN	R	MR091031	R1	CG7086AM	121	0	168	80	0
ZB32RHBALN	R	MR092014	R1	CG7086AMT	121	0	168	30	0
ZB32RHALL	R	RR084008	R5	CY62128DV30LL-55ZAXIT	121	0	96	77	0
ZB32RHALL	R	RR084008	R5	CY62128DV30LL-55ZAXIT	121	0	168	77	0

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

10

records

Sum 743 0

TSOP II (Pb-Free)

ZW444GALL	R	071304	R9	7C1404B6BC-**RZWCB	121	0	168	80	0
ZW444ZALL	G	082703	R1	CY14B108L-ZS25XIES	121	0	168	80	0
ZW444ZALL	G	082703	R1	CY14B108L-ZS25XIES	121	0	288	80	0
ZW444ZALL	G	082703	R3	7C1408B8BC-**GZWIB	121	0	168	45	0
ZW444ZALL	G	082703	R3	7C1408B8BC-**GZWIB	121	0	288	43	0
ZW444GALL	R	082704	R1	CY7C1404B	121	0	168	80	0
ZW444GALL	R	082704	R1	CY7C1404B	121	0	288	80	0
ZW444AHBLL	R	MR084007	R1	CG6850AM	121	0	168	80	0
ZW324CBLL	T	MR084025	R1	CG7092AM	121	0	168	80	0
ZW544AALL	G	MR084038	R1	CY7C1061AV33-10ZXC	121	0	168	80	0
ZW444AMLN	R	MR091013	R1	CY62147DV30LL-55ZSXET	121	0	168	79	0
ZW444AMLN	R	MR091013	R1	CY62147DV30LL-55ZSXET	121	0	96	79	0
ZW544AALL	G	MR091027	R1	CS6729AT	121	0	168	80	0
ZW324GALL	T	MR091056	R1	CY7C1019DV33-10ZSXI	121	0	168	80	0
ZW324CBLL	T	MR092015	R1	CY62148EV30LL-45ZSXI	121	0	168	30	0
ZW54BGALL	G	MR092043	R1	CY7C1061DV33-10ZSXIT	121	0	168	30	0
ZW444RAGN	R	MR093015	R1	CY62137VNLL-70ZSXAT	121	0	168	28	0
ZW444RAGN	R	MR093015	R1	CY62137VNLL-70ZSXAT	121	0	96	29	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	121	0	168	30	0
ZW444AMBLN	R	RR084008	R3	CS6673ATT	121	0	168	77	0
ZW444AMBLN	R	RR084008	R3	CS6673ATT	121	0	96	77	0
Summary for Package Family: TSOP II (Pb-Free)			21	records					
Sum									1347
									0

TSSOP

Z1620GBAGN	RA	MR084016	R1	CY2309ZC-1HT	121	0	168	80	0
Z0811XAGB	M	MR084064	R1	CY2304NZZI-1	121	0	168	80	0
Z1620GBAGN	RA	MR092022	R1	CY2309ZC-1HT	121	0	168	30	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	121	0	168	30	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	121	0	168	30	0
Summary for Package Family: TSSOP			5	records					
Sum									250
									0

TSSOP (Pb-Free)

ZZ1620GBAN	RA	MR084022	R1	CY2308ZXC-1HT	121	0	168	80	0
ZZ0812BGL	T	MR084024	R1	CY25100ZXC38T	121	0	168	80	0
ZZ1619GAN	RA	MR084065	R1	CY2309CZXI-1H	121	0	168	80	0
ZZ1620GBAN	RA	MR091018	R1	CY2309ZXC-1HT	121	0	168	80	0
ZZ0812BGL	T	MR091019	R1	CY25100ZXC38T	121	0	168	80	0
ZZ1620GBAN	RA	MR092020	R1	CY2309ZXC-1HT	121	0	168	30	0
ZZ0812BGL	T	MR092023	R1A	CY2304NZZXI-1	121	0	168	77	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	121	0	168	30	0
Summary for Package Family: TSSOP (Pb-Free)			8	records					
Sum									537
									0

VFBGA (0.75-0.8, 0.3mm)

BV48AAALE	G-TAIWAN	MR083013	R1	CY62157DV30LL-55BVI	121	0	168	80	0
BV48AACALE	AT	MR084063	R1	CY62157DV30LL-70BVI	121	0	168	80	0
BV48ABEALE	A	MR091041	R1	CY62167EV30LL-45BVI	121	0	168	79	0
BV48ABEALE	AT	MR092012	R1	CY62167EV30LL-45BVI	121	0	168	30	0
BV48BNALE	G	RR084014	R1	CY62167DV30LL-55BVI	121	0	168	77	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			5	records					
Sum							346	0	
VFBGA (0.75-0.8, 0.3mm, Pb-Free)									
BZ56BGALL	RA	MR084011	R1	CY7C68013A-56BAXC	121	0	168	80	0
BZ100DGALL	RA	MR084012	R1	CYWB0124AB-BVXIT	121	0	168	79	0
BZ48DAGLL	RA	MR084034	R1	CY62137FV30LL-45BVXIT	121	0	168	80	0
BZ48CFAALL	G	MR084035	R1	CY62158EV30LL-45BVXI	121	0	168	79	0
BZ100DGALL	RA	MR084069	R1	CYWB0124AB-BVXIT	121	0	168	64	0
BZ100DGALL	RA	MR084069	R2	CYWB0124AB-BVXIT	121	0	168	80	0
BZ100DGALL	RA	MR084069	R3	CYWB0124AB-BVXIT	121	0	168	79	0
BZ56IAAAGL	AT	MR084071	R1	CY7C68053-56BAXIT	121	0	168	80	0
BZ100DGALL	RA	MR084073	R1	CYWB0124AB-BVXIT	121	0	168	80	0
BZ100DGALL	RA	MR091015	R1	CYWB0124AB-BVXI	121	0	168	80	0
BZ100DAALL	G	MR091028	R1	CS7129AMT	121	0	168	80	0
BZ48CFAALL	G	MR091029	R1	CY62157EV30LL-45BVXI	121	0	168	80	0
BZ48DAGLL	RA	MR091033	R1	CY62137FV30LL-45BVXIT	121	0	168	80	0
BZ48ABEALL	AT	MR091034	R1	CY62167EV30LL-45BVXI	121	0	168	80	0
BZ48ABBLL	AT	MR092011	R1	CY62127DV30LL-55BVXIT	121	0	168	30	0
BZ48DAGLL	RA	MR092016	R1	CY62137FV30LL-45BVXIT	121	0	168	30	0
BZ48CHAALL	G	MR092031	R1	CY62126EV30LL-55BVXE	121	0	96	30	0
BZ48CHAALL	G	MR092031	R1	CY62126EV30LL-55BVXE	121	0	168	30	0
BZ100HAALL	RA	MR092061	R1	CYWB0224ABS-BVXI	121	0	168	30	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	121	0	168	30	0
BZ48CFBALL	G	MR093025	R1	CY62157EV30LL-45BVXA	121	0	96	30	0
BZ48CFBALL	G	MR093025	R1	CY62157EV30LL-45BVXA	121	0	168	28	0
BZ56BGALL	RA	MR093036	R1	CY7C68013A-56BAXC	121	0	168	30	0
BZ48ABCALL	AT	MR093059	R1	CG6851AM	121	0	168	29	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)			24	records					
Sum							1398	0	

Summary Detail -- TCT Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
FBGA (0.75-0.8, 0.3mm, Pb-free)											
BK48DJALL	G	MR083050	R1	CY62177DV30LL-55BAXI	-65	0	1000	80	0		
BK48DQBLL	G	MR084056	R1	CG7081AM	-65	0	500	80	0		
BK48DQBLL	G	MR084056	R1	CG7081AM	-65	0	1000	79	0		
BK48CDGLL	G	MR091060	R1	CY7C1041CV33-10BAXA	-65	0	500	75	0		
BK48CDGLL	G	MR091060	R1	CY7C1041CV33-10BAXA	-65	0	1000	75	0		
BK48CDGLL	G	MR092042	R1	CY7C1041CV33-10BAXAT	-65	0	500	29	0		
BK48CDGLL	G	MR092042	R1	CY7C1041CV33-10BAXAT	-65	0	1000	29	0		
BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	-65	0	500	30	0		
BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	-65	0	1000	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)				9	records						
Sum								507	0		
FBGA (1.0-1.27)											
BB165BUALE	G	091706	R3A	CY7C1512KV18-*BZCES	150	0	500	77	0		
BB165BUALE	G	091706	R3A	CY7C1512KV18-*BZCES	150	0	1000	77	0		
BB172BALE	G	MR084070	R1A	CY7C0852V-133BBI	-65	0	500	137	0		
BB172BALE	G	MR084070	R1A	CY7C0852V-133BBI	-65	0	1000	137	0		
BB165ALLE	G	MR092017	R1	CY7C1312BV18-200BZC	-65	0	500	30	0		
BB165ALLE	G	MR092017	R1	CY7C1312BV18-200BZC	-65	0	1000	30	0		
BB165AVLE	RA	MR092058	R1	CY7C1313TV18-250BZC	-65	0	500	30	0		
BB165AVLE	RA	MR092058	R1	CY7C1313TV18-250BZC	-65	0	1000	30	0		
BB165AFBLE	AT	MR092076	R1	CY7C1315BV18-200BZC	-65	0	500	30	0		
BB165AFBLE	AT	MR092076	R1	CY7C1315BV18-200BZC	-65	0	1000	30	0		
Summary for Package Family: FBGA (1.0-1.27)				10	records						
Sum								608	0		
FBGA (1.0-1.27, Pb-free)											
BW165AZALL	AT	083601	R1	CY1512V18-200BZXC	150	0	500	74	0		
BW165AZALL	AT	083601	R1	CY1512V18-200BZXC	150	0	1000	74	0		
BW165AZALL	AT	083601	R2	CY7C1512V18-200BZXC	150	0	500	77	0		
BW165AZALL	AT	083601	R2	CY7C1512V18-200BZXC	150	0	1000	77	0		
BW165AZALL	AT	083601	R3	CY7C1512V18-200BZXC	150	0	500	76	0		
BW165AZALL	AT	083601	R3	CY7C1512V18-200BZXC	150	0	1000	76	0		
BW165AZALL	AT	084003	R1	CY1512V18-200BZXC	150	0	500	74	0		
BW165AZALL	AT	084003	R1	CY1512V18-200BZXC	150	0	1000	74	0		
BW165AZALL	AT	084003	R2	CY7C1512V18-200BZXC	150	0	500	77	0		
BW165AZALL	AT	084003	R2	CY7C1512V18-200BZXC	150	0	1000	77	0		
BW165AZALL	AT	084003	R3	CY7C1512V18-200BZXC	150	0	500	76	0		
BW165AZALL	AT	084003	R3	CY7C1512V18-200BZXC	150	0	1000	76	0		
BW165BJALL	G	091706	R1A	CY7C1512KV18-*BZCES	150	0	500	77	0		
BW165BJALL	G	091706	R1A	CY7C1512KV18-*BZCES	150	0	1000	77	0		

BW165BJALL	G	091706	R2A	CY7C1512KV18-*BZCES	150	0	500	78	0
BW165BJALL	G	091706	R2A	CY7C1512KV18-*BZCES	150	0	1000	78	0
BW100EAGL	G	MR084067	R1	CYP15G0101DXB-BBXC	-65	0	500	80	0
BW100EAGL	G	MR084067	R1	CYP15G0101DXB-BBXC	-65	0	1000	80	0
BW100AAALL	AT	MR091061	R1	CYP15G0101DXB-BBXI	-65	0	500	80	0
BW100AAALL	AT	MR091061	R1	CYP15G0101DXB-BBXI	-65	0	1000	80	0
BW100CAGL	G	MR092052	R1	CY7B994V-2BBXIT	-65	0	500	30	0
BW100CAGL	G	MR092052	R1	CY7B994V-2BBXIT	-65	0	1000	30	0
BW100EAGL	G	MR093033	R1	CYP15G0101DXB-BBXI	150	0	500	30	0
BW100EAGL	G	MR093033	R1	CYP15G0101DXB-BBXI	150	0	1000	30	0
BW100EAGL	G	RR083026	R1	CYP15G0101DXB-BBXI	150	0	800	80	0
BW100EAGL	G	RR083026	R1	CYP15G0101DXB-BBXI	150	0	500	80	0
BW100EAGL	G	RR083026	R1	CYP15G0101DXB-BBXI	150	0	300	80	0
BW100EAGL	G	RR083026	R1	CYP15G0101DXB-BBXI	150	0	1000	80	0
BW100EAGL	G	RR083026	R2	CYP15G0101DXB-BBXI	150	0	300	80	0
BW100EAGL	G	RR083026	R2	CYP15G0101DXB-BBXI	150	0	500	80	0
BW100EAGL	G	RR083026	R2	CYP15G0101DXB-BBXI	150	0	800	80	0
BW100EAGL	G	RR083026	R2	CYP15G0101DXB-BBXI	150	0	1000	80	0
BW100EAGL	G	RR083026	R3	CYV15G0101DXB-BBXI	150	0	1000	80	0
BW100EAGL	G	RR083026	R3	CYV15G0101DXB-BBXI	150	0	300	80	0
BW100EAGL	G	RR083026	R3	CYV15G0101DXB-BBXI	150	0	500	80	0
BW100EAGL	G	RR083026	R3	CYV15G0101DXB-BBXI	150	0	800	80	0
BW100EAGL	G	RR083026	R4	CYP15G0101DXB-BBXC	150	0	1000	79	0
BW100EAGL	G	RR083026	R4	CYP15G0101DXB-BBXC	150	0	300	80	0
BW100EAGL	G	RR083026	R4	CYP15G0101DXB-BBXC	150	0	500	79	0
BW100EAGL	G	RR083026	R4	CYP15G0101DXB-BBXC	150	0	800	79	0
BW100EAGL	G	RR083026	R3	CYV15G0101DXB-BBXI	150	0	1000	80	0
Summary for Package Family: FBGA (1.0-1.27, Pb-free)				40	records				
Sum								2935	0
FLIPCHIP CSP (Pb-Free)									
FN81BBGAN	AU	082901	R2	CYWB0226ABSX-FDXIES	125	0	1000	106	0
FN81BBGAN	AU	082901	R2	CYWB0226ABSX-FDXIES	125	0	500	110	0
FN81BBGAN	AU	082901	R3	CYWB0226ABSX-FDXIES	125	0	1000	112	0
FN81BBGAN	AU	082901	R3	CYWB0226ABSX-FDXIES	125	0	500	112	0
FN30A	AU	090802	R1	CY8C20634-12FDXIT	150	0	158	66	0
FN30A	AU	090802	R1	CY8C20634-12FDXIT	150	0	500	66	0
FN30A	AU	090802	R2	CY8C20634-12FDXIT	150	0	500	76	0
Summary for Package Family: FLIPCHIP CSP (Pb-Free)				7	records				
Sum								648	0
PBGA (1.27)									
BG119SALE	G	MR084037	R1	CY7C1354C-166BGC	-65	0	500	80	0
BG119SALE	G	MR084037	R1	CY7C1354C-166BGC	-65	0	1000	78	0
BG119ADALE	AT	MR084081	R1	CY7C1354C-166BGC	-65	0	500	40	0
BG119ADALE	AT	MR084081	R1	CY7C1354C-166BGC	-65	0	1000	40	0

BG119ADALE	AT	MR084081	R2	CY7C1354C-166BGC	-65	0	500	40	0
BG119ADALE	AT	MR084081	R2	CY7C1354C-166BGC	-65	0	1000	40	0
BG119ADALE	AT	MR084081	R3	CY7C1354C-166BGC	-65	0	500	40	0
BG119ADALE	AT	MR084081	R3	CY7C1354C-166BGC	-65	0	1000	40	0
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	-65	0	500	30	0
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	-65	0	1000	30	0
Summary for Package Family: PBGA (1.27)			10	records				458	0
Sum									
PBGA (1.27, Pb-free)									
BY119YALL	G	MR092050	R1	CY7C1062DV33-10BGXI	-65	0	500	29	0
BY119YALL	G	MR092050	R1	CY7C1062DV33-10BGXI	-65	0	1000	29	0
Summary for Package Family: PBGA (1.27, Pb-free)			2	records				58	0
Sum									
PBGA (Cavity/Heat Sink)									
BL256L2GE	G	MR084066	R1	CYP15G0401DXB-BGI	-65	0	500	76	0
BL256L2GE	G	MR084066	R1	CYP15G0401DXB-BGI	-65	0	1000	75	0
Summary for Package Family: PBGA (Cavity/Heat Sink)			2	records				151	0
Sum									
PDIP (Pb-Free)									
PZ286EAAGN	X	092014	R5	7C62256NEC-**XPZC	150	-65	500	80	0
PZ286EAAGN	X	092014	R6	7C62256NEC-**XPZC	150	-65	500	80	0
PZ283AAAGN	X-THAILAND	MR083047	R1	CY8C24423A-24PXI	-65	0	1000	80	0
PZ243AAAGN	X	MR084028	R1	CY7C63743C-PXC	-65	0	500	80	0
PZ243AAAGN	X	MR084028	R1	CY7C63743C-PXC	-65	0	1000	80	0
PZ283AAAGN	X	MR084031	R1	CY8C27443-24PXI	-65	0	500	80	0
PZ283AAAGN	X	MR084031	R1	CY8C27443-24PXI	-65	0	1000	80	0
PZ183DBGN	RA	MR084050	R1	CS6632AF	-65	0	500	99	0
PZ183DBGN	RA	MR084050	R1	CS6632AF	-65	0	1000	99	0
PZ183DBGN	RA	MR091008	R1	CY7C63723C-PXC	-65	0	500	80	0
PZ183DBGN	RA	MR091008	R1	CY7C63723C-PXC	-65	0	1000	80	0
PZ283ACAGL	X	MR091039	R1	CY7C199CN-15PXC	-65	0	500	78	0
PZ283ACAGL	X	MR091039	R1	CY7C199CN-15PXC	-65	0	1000	68	0
PZ283AAAGN	X	MR091044	R1	CG6993AM	-165	0	500	80	0
PZ283AAAGN	X	MR091044	R1	CG6993AM	-165	0	1000	80	0
PZ283AAAGN	X	MR092030	R1	CY8C24423A-24PXI	-65	0	500	30	0
PZ283AAAGN	X	MR092030	R1	CY8C24423A-24PXI	-65	0	1000	30	0
PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	-65	0	500	30	0
PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	-65	0	1000	30	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	-65	0	500	30	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	-65	0	1000	30	0
PZ183ABBGN	X-THAILAND	NR083005	R1	CY7C63231A-PXC	150	0	1000	77	0
PZ283ABALL	X-THAILAND	NR083005	R2	CY8C27443-24PXI	150	0	1000	77	0
PZ183ABBGN	X-THAILAND	NR083005	R3	CY7C63231A-PXC	150	0	1000	77	0
Summary for Package Family: PDIP (Pb-Free)			24	records					

Sum								1635	0
PLCC									
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	-65	0	1500	80	0
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	-65	0	2000	81	0
J32RBGAAGB	X-MMT	MR083024	R1	CY7B991V-5JI	-65	0	2500	80	0
Summary for Package Family: PLCC			3	records					
Sum								241	0
PLCC (Pb-Free)									
JZ52SFGAN	M	MR084046	R1	7C136GT-**MJXCT	-65	0	500	80	0
JZ52SFGAN	M	MR084046	R1	7C136GT-**MJXCT	-65	0	1000	80	0
JZ52SFGAN	M	MR084074	R1	CY7C131-25JXCT	-65	0	500	77	0
JZ52SFGAN	M	MR084074	R1	CY7C131-25JXCT	-65	0	1000	77	0
JZ28SBGAN	M	MR091037	R1	CY7B933-JXC	-65	0	500	80	0
JZ28SBGAN	M	MR091037	R1	CY7B933-JXC	-65	0	1000	80	0
Summary for Package Family: PLCC (Pb-Free)			6	records					
Sum								474	0
PQFP (Pb-free)									
NZ52DXGAN	G	MR084053	R1	7C136GT-**GNZC	-65	0	500	80	0
NZ52DXGAN	G	MR084053	R1	7C136GT-**GNZC	-65	0	1000	80	0
NZ52DXGAN	G	MR091025	R1	CY7C136-55NXCT	-65	0	500	79	0
NZ52DXGAN	G	MR091025	R1	CY7C136-55NXCT	-65	0	1000	79	0
NZ52DXGAN	G	MR093032	R1	CY7C136-55NXC	-65	0	500	30	0
NZ52DXGAN	G	MR093032	R1	CY7C136-55NXC	-65	0	1000	30	0
Summary for Package Family: PQFP (Pb-free)			6	records					
Sum								378	0
QFN (0.4mm, Saw Type, Pb-free)									
LN32AAAAAL	CA-THAILAND	MR083049	R1	CP7052ATT	-65	0	1000	80	0
LN32AAAAAL	CA	MR084040	R1	CP7052ATT	-65	0	500	80	0
LN32AAAAAL	CA	MR084040	R1	CP7052ATT	-65	0	1000	80	0
LN32AAAAAL	CA	MR091052	R1	CP7052BTT	-16	0	500	73	0
LN32AAAAAL	CA	MR091052	R1	CP7052BTT	-16	0	1000	72	0
LN32AAAAAL	CA	MR092048	R1	CP7052BTT	-65	0	500	30	0
LN32AAAAAL	CA	MR092048	R1	CP7052BTT	-65	0	1000	30	0
Summary for Package Family: QFN (0.4mm, Saw Type, 7 Pb-free)				records					
Sum								445	0
QFN (0.6mm, Punch Type, Pb-Free)									
LK32AABAG	L	MR084008	R1	CY8C20434-12LKXI	-65	0	500	80	0
LK32AABAG	L	MR084008	R1	CY8C20434-12LKXI	-65	0	1000	80	0
LK32AABAGL	L	MR091011	R1	CY8C20434-12LKXIT	-65	0	500	80	0
LK32AABAGL	L	MR091011	R1	CY8C20434-12LKXIT	-65	0	1000	80	0
LK32AABAGL	L	MR092044	R1	CY8C20434-12LKXIT	-65	0	500	30	0
LK32AABAGL	L	MR092044	R1	CY8C20434-12LKXIT	-65	0	1000	30	0
Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)			6	records					
Sum								380	0

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

LQ32DAGLL	CA	082109	R1	CY8C204345-12LQXI	150	0	500	80	0
LQ32DAGLL	CA	082109	R1	CY8C204345-12LQXI	150	0	1000	80	0
LQ32DAGLL	CA	082109	R2	CY8C204345-12LQXI	150	0	500	80	0
LQ32DAGLL	CA	082109	R2	CY8C204345-12LQXI	150	0	1000	80	0
LQ32DAGLL	CA	082109	R3	CY8C204345-12LQXI	150	0	500	80	0
LQ32DAGLL	CA	082109	R3	CY8C204345-12LQXI	150	0	1000	80	0
LQ32DAGLL	CA	083401	R2	CY8C20466-24LQXI	150	0	500	77	0
LQ32DAGLL	CA	083401	R2	CY8C20466-24LQXI	150	0	1000	77	0
LQ32DAGLL	CA	083401	R4	CY8C20466-24LQXI	150	0	500	77	0
LQ32DAGLL	CA	083401	R4	CY8C20466-24LQXI	150	0	1000	77	0
LQ32ACAAGL	MB	083909	R1	CY8C204345-12LQXI	150	0	500	80	0
LQ32ACAAGL	MB	083909	R1	CY8C204345-12LQXI	150	0	1000	80	0
LQ32ACAAGL	MB	083909	R2	CY8C204345-12LQXI	150	0	500	80	0
LQ32ACAAGL	MB	083909	R2	CY8C204345-12LQXI	150	0	1000	80	0
LQ32ACAAGL	MB	083909	R3	CY8C204345-12LQXI	150	0	500	80	0
LQ32ACAAGL	MB	083909	R3	CY8C204345-12LQXI	150	0	1000	80	0
LQ24AAAAAL	RA	084602	R1	CY8C20324-12LQXI	150	0	500	77	0
LQ24AAAAAL	RA	084602	R1	CY8C20324-12LQXI	150	0	1000	77	0
LQ24AAAAAL	RA	084602	R2	CY8C20324-12LQXI	150	0	500	80	0
LQ24AAAAAL	RA	084602	R2	CY8C20324-12LQXI	150	0	1000	80	0
LQ24AAAAAL	RA	084602	R3	CY8C20324-12LQXI	150	0	500	80	0
LQ24AAAAAL	RA	084602	R3	CY8C20324-12LQXI	150	0	1000	80	0
LQ24AAAAAL	RA	084602	R4	CY8C20324-12LQXI	150	0	500	80	0
LQ24AAAAAL	RA	084602	R4	CY8C20324-12LQXI	150	0	1000	80	0
LQ24AAAAAL	RA	084602	R5	CY8C20324-12LQXI	150	0	500	80	0
LQ24AAAAAL	RA	084602	R5	CY8C20324-12LQXI	150	0	1000	80	0
LQ24AAAAAL	RA	084602	R6	CY8C20324-12LQXI	150	0	500	80	0
LQ24AAAAAL	RA	084602	R6	CY8C20324-12LQXI	150	0	1000	80	0
LQ32ACAAGL	M	084609	R1	CY24292LFXI	150	0	500	80	0
LQ32ACAAGL	M	084609	R1	CY24292LFXI	150	0	1000	80	0
LQ32ACAAGL	M	084609	R2	CY24292LFXC	150	0	500	79	0
LQ32ACAAGL	M	084609	R2	CY24292LFXC	150	0	1000	79	0
LQ32ACAAGL	M	084609	R3	CY24292LFXC	150	0	500	80	0
LQ32ACAAGL	M	084609	R3	CY24292LFXC	150	0	1000	80	0
LQ24ADAAGL	CA	084701	R1	CY8CTST200-24LQXI	150	0	500	77	0
LQ24ADAAGL	CA	084701	R1	CY8CTST200-24LQXI	150	0	1000	77	0
LQ24ADAAGL	CA	084701	R2	CY8C20366-24LQXI	150	0	500	77	0
LQ24ADAAGL	CA	084701	R2	CY8C20366-24LQXI	150	0	1000	77	0
LQ24ADAAGL	CA	084701	R3	CY8C20346-24LQXI	150	0	500	76	0
LQ24ADAAGL	CA	084701	R3	CY8C20346-24LQXI	150	0	1000	76	0
LQ32DAGLL	CA	090301	R1A (1)	CY8C20466-24LQXI	150	0	500	77	0
LQ32DAGLL	CA	090301	R1A (1)	CY8C20466-24LQXI	150	0	1000	77	0

LQ32DAGLL	CA	090301	R1B (1)	CY8C20466-24LQXI	150	0	500	77	0
LQ32DAGLL	CA	090301	R1B (1)	CY8C20466-24LQXI	150	0	1000	77	0
LQ32DAGLL	CA	090301	R1C (1)	CY8C20466-24LQXI	150	0	500	73	0
LQ32DAGLL	CA	090301	R1C (1)	CY8C20466-24LQXI	150	0	1000	73	0
LQ32DAGLL	CA	090301	R2B (1)	CY8C20466-24LQXI	150	0	500	77	0
LQ32DAGLL	CA	090301	R2B (1)	CY8C20466-24LQXI	150	0	1000	77	0
LQ24AEAAGL	M	091203	R1	CY8C203345-12LQXIKM	150	0	500	77	0
LQ24AEAAGL	M	091203	R1	CY8C203345-12LQXIKM	150	0	1000	77	0
LQ24AEAAGL	M	091203	R2	CY8C203345-12LQXIKM	150	0	500	77	0
LQ24AEAAGL	M	091203	R2	CY8C203345-12LQXIKM	150	0	1000	77	0
LQ24AEAAGL	M	091203	R3	CY8C203345-12LQXIKM	150	0	500	75	0
LQ24AEAAGL	M	091203	R3	CY8C203345-12LQXIKM	150	0	1000	75	0
LQ24ABAAL	AT-THAILAND	MR083053	R1	CY8C20324-12LQXI	-65	0	1000	80	0
LQ24ABAAL	AT	MR084039	R1	CY8C20324-12LQXI	-65	0	500	80	0
LQ24ABAAL	AT	MR084039	R1	CY8C20324-12LQXI	-65	0	1000	80	0
LQ24ABAAL	AT	MR091040	R1	CP6836ATT	-165	0	500	80	0
LQ24ABAAL	AT	MR091040	R1	CP6836ATT	-165	0	1000	80	0
LQ24ABAAL	AT	MR092009	R1	CY8C20324-12LQXI	-65	0	500	30	0
LQ24ABAAL	AT	MR092009	R1	CY8C20324-12LQXI	-65	0	1000	30	0
LQ32DAGLL	CA	MR092054	R1	CY8C20466-24LQXI	-65	0	500	30	0
LQ32DAGLL	CA	MR092054	R1	CY8C20466-24LQXI	-65	0	1000	30	0
LQ32DAGLL	CA	MR093044	R1	CY8C20466-24LQXI	-65	0	500	30	0
LQ32DAGLL	CA	MR093044	R1	CY8C20466-24LQXI	-65	0	1000	27	0
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	-65	0	500	29	0
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	-65	0	1000	29	0

Summary for Package Family: QFN (0.6mm, Saw Type, 67 Pb-Free)
Sum

records

4861 0

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

LG16AAAAAL	M	084404	R1	CY7C64316-16LKXC	150	0	500	77	0
LG16AAAAAL	M	084404	R1	CY7C64316-16LKXC	150	0	1000	77	0
LG16AAAAAL	M	084404	R2	CY8CTST200-16LGXI	150	0	500	78	0
LG16AAAAAL	M	084404	R2	CY8CTST200-16LGXI	150	0	1000	77	0
LG16AAAAAL	M	084404	R3	CY7C64315-16LKXC	150	0	500	73	0
LG16AAAAAL	M	084404	R3	CY7C64315-16LKXC	150	0	1000	73	0
LG16AAAAAL	MB	093905	R1	CY8C20246-24LKXI	150	0	500	78	0
LG16AAAAAL	MB	093905	R2	CY8C20246-24LKXI	150	0	500	80	0
LG16AAAAAL	MB	093905	R3	CY8C20246-24LKXI	150	0	500	85	0
LG16AAAAAL	MB	093905	R4	CY8C20246-24LKXI	150	0	500	88	0
LG16AAAAAL	M-PHILS	MR083048	R1	CY8C20122-LDX2I	-65	0	1000	77	0
LG16AAAAAL	M	MR084013	R1	CY8C20234-12LKXI	-65	0	500	80	0
LG16AAAAAL	M	MR084013	R1	CY8C20234-12LKXI	-65	0	1000	80	0
LG16AAAAAL	LG	MR092053	R1	CY8C20180-LDX2I	-65	0	500	29	0
LG16AAAAAL	LG	MR092053	R1	CY8C20180-LDX2I	-65	0	1000	29	0

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

records

Sum								1081	0
QFN (Punch Type, Pb-Free)									
LY56DGAGL	L	080904	R1	CY7C66113C-LFXC	150	0	500	80	0
LY56DGAGL	L	080904	R1	CY7C66113C-LFXC	150	0	1000	80	0
LY56DGAGL	L	080904	R2	CY7C66113C-LFXC	150	0	500	80	0
LY56DGAGL	L	080904	R2	CY7C66113C-LFXC	150	0	1000	80	0
LY40ABGAGL	L	084603	R1	CYRF6936A-40LFXC	125	0	500	77	0
LY40ABGAGL	L	084603	R1	CYRF6936A-40LFXC	125	0	1000	77	0
LY40ABGAGL	L	084603	R2	CYRF6936A-40LFXC	125	0	500	77	0
LY40ABGAGL	L	084603	R2	CYRF6936A-40LFXC	125	0	1000	77	0
LY40ABGAGL	L	084603	R3	CYRF6936A-40LFXC	125	0	500	77	0
LY40ABGAGL	L	084603	R3	CYRF6936A-40LFXC	125	0	1000	77	0
LY56DGAGL	L	090405	R1	CY8C24894-24LFXI	150	0	500	85	0
LY56DGAGL	L	090405	R2	CY8C24894-24LFXI	150	0	500	85	0
LY56DGAGL	L	090405	R3	CY8C24894-24LFXI	150	0	500	85	0
LY40BGAGL	L-KOREA	MR083058	R1	CYRF6936-40LFXC	-65	0	1000	79	0
LY68AGABGL	L	MR084009	R1	CS6656AAT	-65	0	500	80	0
LY68AGABGL	L	MR084009	R1	CS6656AAT	-65	0	1000	9	0
LY68AGABGL	L	MR084009	R1	CS6656AAT	-65	0	1000	71	0
LY40BGAGL	L	MR084014	R1	CYRF6936-40LFXC	-65	0	500	80	0
LY40BGAGL	L	MR084014	R1	CYRF6936-40LFXC	-65	0	1000	80	0
LY32AAAGR	L	MR084015	R1	CY8C21434-24LFXI	-65	0	500	80	0
LY32AAAGR	L	MR084015	R1	CY8C21434-24LFXI	-65	0	1000	80	0
LY68AGAAGL	L	MR091024	R1	CY8CLED04-68LFXI	-65	0	500	80	0
LY68AGAAGL	L	MR091024	R1	CY8CLED04-68LFXI	-65	0	1000	80	0
LY40ABGAGL	L	MR091030	R1	CS7067AT	-65	0	500	80	0
LY40ABGAGL	L	MR091030	R1	CS7067AT	-65	0	1000	80	0
LY32AAAGR	L	MR091032	R1	CS6624AA	-65	0	500	80	0
LY32AAAGR	L	MR091032	R1	CS6624AA	-65	0	1000	80	0
LY40CGAGR	L	MR092032	R1	CYRF69103-40LFXC	150	0	500	30	0
LY40CGAGR	L	MR092032	R1	CYRF69103-40LFXC	150	0	1000	30	0
LY32AAAGR	L	MR092041	R1	CY8C21434-24LFXI	-165	0	500	30	0
LY32AAAGR	L	MR092041	R1	CY8C21434-24LFXI	-165	0	1000	29	0
LY32AAAGR	L	MR093017	R1	CP6759AMT	-65	0	500	30	0
LY32AAAGR	L	MR093017	R1	CP6759AMT	-65	0	1000	30	0
LY48CGAGL	L	MR093046	R1	CY8C27643-24LFXIT	-65	0	500	30	0
LY48CGAGL	L	MR093046	R1	CY8C27643-24LFXIT	-65	0	1000	30	0
Summary for Package Family: QFN (Punch Type, Pb-Free)				35	records				
Sum								2315	0
QFN (Saw Type, Pb-free)									
LT56ABAAGL	CA-Malaysia	075103	R1	CY8CLED04DOCD1-56ES	150	0	1000	89	0
LT56ABAAGL	CA-Malaysia	075103	R2	CY8CLED04DOCD1-56ES	150	0	500	90	0
LT56ABAAGL	CA-Malaysia	075103	R2	CY8CLED04DOCD1-56ES	150	0	1500	90	0

LT56ABAAGL	CA-Malaysia	075103	R2	CY8CLED04DOCD1-56ES	150	0	1000	90	0
LT56ABAAGL	CA	075103	R3	CY8CLED04D01-56LTXI	150	0	500	90	0
LT56ABAAGL	CA	075103	R3	CY8CLED04D01-56LTXI	150	0	1000	90	0
LT48ABAAGR	CA	083701	R1	CYWUSB6934-48LTXC	150	0	500	77	0
LT48ABAAGR	CA	083701	R1	CYWUSB6934-48LTXC	150	0	1000	77	0
LT48ABAAGR	CA	083701	R2	CYWUSB6934-48LTXC	150	0	500	77	0
LT48ABAAGR	CA	083701	R2	CYWUSB6934-48LTXC	150	0	1000	77	0
LT48ABAAGR	CA	083701	R3	CYWUSB6934-48LTXC	150	0	500	77	0
LT48ABAAGR	CA	083701	R3	CYWUSB6934-48LTXC	150	0	1000	77	0
LT32BAAGGL	M	083907	R1	CY8C21434-24LTXI	150	0	500	80	0
LT32BAAGGL	M	083907	R1	CY8C21434-24LTXI	150	0	1000	80	0
LT32BAAGGL	M	083907	R2	CY8C21434-24LTXI	150	0	500	80	0
LT32BAAGGL	M	083907	R2	CY8C21434-24LTXI	150	0	1000	80	0
LT32BAAGGL	M	083907	R3	CY8C21434-24LTXI	150	0	500	79	0
LT32BAAGGL	M	083907	R3	CY8C21434-24LTXI	150	0	1000	79	0
LT68ABCAGL	AE	084005	R1	CY8C24994-24LTXI	150	0	500	80	0
LT68ABCAGL	AE	084005	R1	CY8C24994-24LTXI	150	0	1000	80	0
LT68ABCAGL	AE	084005	R2	CY8C24994-24LTXI	150	0	500	80	0
LT68ABCAGL	AE	084005	R2	CY8C24994-24LTXI	150	0	1000	80	0
LT56BCAAGL	AE	084005	R3	CY7C65640A-LTXC	150	0	500	80	0
LT56BCAAGL	AE	084005	R3	CY7C65640A-LTXC	150	0	1000	80	0
LT68ABCAGL	AE	084005	R4	CY8C24994-24LTXI	150	0	500	80	0
LT68ABCAGL	AE	084005	R4	CY8C24994-24LTXI	150	0	1000	80	0
LT68ABCAGL	AE	084005	R5	CY8C24994-24LTXI	150	0	500	80	0
LT68ABCAGL	AE	084005	R5	CY8C24994-24LTXI	150	0	1000	80	0
LT56BCAAGL	AE	084005	R6	CY7C65640A-LTXC	150	0	500	80	0
LT56BCAAGL	AE	084005	R6	CY7C65640A-LTXC	150	0	1000	80	0
LT40ACAAGL	AE	084006	R1	CYRF6936-40LTXC	150	0	500	80	0
LT40ACAAGL	AE	084006	R1	CYRF6936-40LTXC	150	0	1000	80	0
LT40ACAAGL	AE	084006	R2	CYRF6936-40LTXC	150	0	500	80	0
LT40ACAAGL	AE	084006	R2	CYRF6936-40LTXC	150	0	1000	80	0
LT40ACAAGL	AE	084006	R3	CYRF6936-40LTXC	150	0	500	80	0
LT40ACAAGL	AE	084006	R3	CYRF6936-40LTXC	150	0	1000	80	0
LT40ACAAGL	AE	084006	R4	CYRF6936-40LTXC	150	0	500	80	0
LT40ACAAGL	AE	084006	R4	CYRF6936-40LTXC	150	0	1000	80	0
LT40ACAAGL	AE	084006	R5	CYRF6936-40LTXC	150	0	500	80	0
LT40ACAAGL	AE	084006	R5	CYRF6936-40LTXC	150	0	1000	80	0
LT40ACAAGL	AE	084006	R6	CYRF6936-40LTXC	150	0	1000	80	0
LT32BBACGL	AE	084007	R1	CY8C21434-24LTXI	150	0	500	80	0
LT32BBACGL	AE	084007	R1	CY8C21434-24LTXI	150	0	1000	80	0
LT32BBACGL	AE	084007	R2	CY8C21434-24LTXI	150	0	500	80	0
LT32BBACGL	AE	084007	R2	CY8C21434-24LTXI	150	0	1000	80	0
LT32BBACGL	AE	084007	R3	CY8C21434-24LTXI	150	0	500	80	0
LT32BBACGL	AE	084007	R3	CY8C21434-24LTXI	150	0	1000	80	0

LT32BBACGL	AE	084007	R4	CY8C21434-24LTXI	150	0	500	80	0
LT32BBACGL	AE	084007	R4	CY8C21434-24LTXI	150	0	1000	80	0
LT32BBACGL	AE	084007	R5	CY8C21434-24LTXI	150	0	500	80	0
LT32BBACGL	AE	084007	R5	CY8C21434-24LTXI	150	0	1000	80	0
LT32BBACGL	AE	084007	R6	CY8C21434-24LTXI	150	0	500	80	0
LT32BBACGL	AE	084007	R6	CY8C21434-24LTXI	150	0	1000	80	0
LT56BABBG	MB	090603	R1	CY7C65640A-LTXC	150	0	500	77	0
LT56BABBG	MB	090603	R1	CY7C65640A-LTXC	150	0	1000	77	0
LT56BABBG	MB	090603	R2	CY7C65640A-LTXC	150	0	500	77	0
LT56BABBG	MB	090603	R2	CY7C65640A-LTXC	150	0	1000	77	0
LT48ABBAAL	MB	090603	R3	CYWUSB6934-48LTXC	150	0	500	77	0
LT48ABBAAL	MB	090603	R3	CYWUSB6934-48LTXC	150	0	1000	77	0
LT32BAABGL	RA	092002	R1	CY8C21434-24LTXI	150	0	500	80	0
LT32BAABGL	RA	092002	R2	CY8C21434-24LTXI	150	0	500	80	0
LT32BAABGL	RA	092002	R3	CY8C21434-24LTXI	150	0	500	80	0
LT32BAABGL	RA	093308	R1	CY8C21434-24LTXI	150	0	500	76	0
LT32BAABGL	RA	093308	R4	CY8C21434-24LTXI	150	0	500	75	0
SQ2414ABGN	R-CML	MR083023	R1	CY7C63743C-QXC	-65	0	1000	79	0
SQ2414ABGN	R	MR084027	R1	CY7C60223-QXC	-65	0	800	78	0
SQ2414ABGN	R	MR084027	R1	CY7C60223-QXC	-65	0	500	80	0
SQ2414ABGN	R	MR084027	R1	CY7C60223-QXC	-65	0	300	80	0
SQ2414ABGN	R	MR084027	R1	CY7C60223-QXC	-65	0	1000	78	0
SQ2414ABGN	R	MR084027	R1	CY7C60223-QXC	-65	0	100	80	0
LT32BAAAGL	CA	MR084041	R1	CG7032AA	-65	0	500	80	0
LT32BAAAGL	CA	MR084041	R1	CG7032AA	-65	0	1000	80	0
SQ2414ABGN	R	MR091002	R1	CY7C63743C-QXC	-65	0	500	80	0
SQ2414ABGN	R	MR091002	R1	CY7C63743C-QXC	-65	0	1000	80	0
LT32BAABGL	RA	MR091009	R1	CG7032AA	-65	0	500	80	0
LT32BAABGL	RA	MR091009	R1	CG7032AA	-65	0	1000	80	0
SQ2414ABGN	R	MR092005	R1	CY7C63743C-QXC	-65	0	500	29	0
SQ2414ABGN	R	MR092005	R1	CY7C63743C-QXC	-65	0	1000	29	0
LT32BAABGL	RA	MR092034	R1	CY8C21434-24LTXI	150	0	500	30	0
LT32BAABGL	RA	MR092034	R1	CY8C21434-24LTXI	150	0	1000	30	0
LT32BAAGGL	M	MR092051	R1	CG6644FA	-65	0	500	28	0
LT32BAAGGL	M	MR092051	R1	CG6644FA	-65	0	1000	28	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	-65	0	500	30	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	-65	0	1000	30	0
Summary for Package Family: QFN (Saw Type, Pb-free)			74	records					
Sum								5474	0
QSOP (Pb-Free)									
Summary for Package Family: QSOP (Pb-Free)			7	records					
Sum								5679	0
RTSOP (Pb-free)									
ZY28R2BLN	R	MR091010	R1	CY62256NLL-70ZRXIT	-65	0	500	80	0

ZY28R2BLN	R	MR091010	R1	CY62256NLL-70ZRXIT	-65	0	1000	80	0
Summary for Package Family: RTSOP (Pb-free)			2	records				160	0
Sum									
SNC (Pb-Free)									
SY2831BBLN	R	091302	R2	NA	150	0	500	80	0
SY2831BBLN	R	MR084004	R1	CG7107AM	-65	0	500	80	0
SY2831BBLN	R	MR084004	R1	CG7107AM	-65	0	1000	80	0
SY2831BBLN	R	MR091007	R1	CY62256NLL-70SNXCT	-65	0	500	80	0
SY2831BBLN	R	MR091007	R1	CY62256NLL-70SNXCT	-65	0	1000	75	0
SY2831BBLN	R	MR092021	R1	CY62256NLL-70SNXCT	150	0	500	30	0
SY2831BBLN	R	MR092021	R1	CY62256NLL-70SNXCT	150	0	1000	30	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	-65	0	500	30	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	-65	0	1000	30	0
Summary for Package Family: SNC (Pb-Free)			9	records				515	0
Sum									
SOIC									
S0815PBAGN	RA	MR091017	R1	CY2305SI-1HT	-65	0	500	80	0
S0815PBAGN	RA	MR091017	R1	CY2305SI-1HT	-65	0	1000	80	0
S0815PBAGN	RA	MR092027	R1	CY2305SC-1HT	-65	0	500	29	0
S0815PBAGN	RA	MR092027	R1	CY2305SC-1HT	-65	0	1000	29	0
Summary for Package Family: SOIC			4	records				218	0
Sum									
SOIC (J-Lead)									
V243GAAAGN	X	090302	R1	CY7C197BN-15VC	150	0	500	80	0
V243GAAAGN	X	090302	R1	CY7C197BN-15VC	150	0	1000	79	0
V243GAAAGN	X	090302	R2	CY7C197BN-15VC	150	0	500	80	0
V243GAAAGN	X	090302	R2	CY7C197BN-15VC	150	0	1000	80	0
V243GAAAGN	X	090302	R3	CY7C197BN-15VC	150	0	500	80	0
V243GAAAGN	X	090302	R3	CY7C197BN-15VC	150	0	1000	78	0
V243GAAGN	X	090302	R4	CY7C197BN-15VC	150	0	500	80	0
V243GAAGN	X	090302	R4	CY7C197BN-15VC	150	0	1000	80	0
V32418BLL	R	MR092028	R1	CY7C109BNL-15VC	150	0	500	30	0
V32418BLL	R	MR092028	R1	CY7C109BNL-15VC	150	0	1000	30	0
Summary for Package Family: SOIC (J-Lead)			10	records				697	0
Sum									
SOIC (J-Lead, Pb-Free)									
VZ24	X	091906	R1	7C197B	150	0	500	76	0
VZ24	X	091906	R1	7C197B	150	0	1000	76	0
VZ24	X	091906	R2	7C197BN	-65	0	500	76	0
VZ24	X	091906	R2	7C197BN	-65	0	1000	76	0
VZ24	X	091906	R3	CY7C197BN-15VC	150	0	500	77	0
VZ24	X	091906	R3	CY7C197BN-15VC	150	0	1000	77	0
VZ28315PLL	R	092003	R1	CY7C192-15VXC	150	0	500	77	0
VZ28315PLL	R	092003	R1	CY7C192-15VXC	150	0	1000	77	0

VZ28315PLL	R	092003	R2	CY7C192-15VXC	150	0	500	77	0
VZ28315PLL	R	092003	R2	CY7C192-15VXC	150	0	1000	77	0
VZ28315PLL	R	092003	R3	CY7C192-15VXC	150	0	500	75	0
VZ28315PLL	R	092003	R3	CY7C192-15VXC	150	0	1000	75	0
VZ444ACBLN	R	AR0836004	R1	CY7C1021DV33-10VXI	150	0	800	14	0
VZ444ACBLN	R	AR0836004	R1	CY7C1021DV33-10VXI	150	0	500	14	0
VZ444ACBLN	R	AR0836004	R1	CY7C1021DV33-10VXI	150	0	300	14	0
VZ444ACBLN	R	AR0836004	R1	CY7C1021DV33-10VXI	150	0	1000	14	0
VZ444ACBLN	R	AR0836004	R1	CY7C1021DV33-10VXI	150	0	100	14	0
VZ3646BGLL	R	MR084001	R1	CY7C1049CV33-10VXCT	-65	0	500	80	0
VZ3646BGLL	R	MR084001	R1	CY7C1049CV33-10VXCT	-65	0	1000	80	0
VZ28313BLN	R	MR084019	R1	CY7C1399BN-12VXIT	-65	0	500	80	0
VZ28313BLN	R	MR084019	R1	CY7C1399BN-12VXIT	-65	0	1000	80	0
VZ28313BLN	R	MR091045	R1	CY7C1399BN-12VXCT	-165	0	500	79	0
VZ28313BLN	R	MR091045	R1	CY7C1399BN-12VXCT	-165	0	1000	79	0
VZ3649BALN	R	MR091046	R1	CG7119AM	-165	0	500	80	0
VZ3649BALN	R	MR091046	R1	CG7119AM	-165	0	1000	80	0
VZ28313BLN	R	MR092026	R1	CY7C1399BN-12VXCT	150	0	500	30	0
VZ28313BLN	R	MR092026	R1	CY7C1399BN-12VXCT	150	0	1000	30	0
VZ32420BLL	R	MR092036	R1	CY7C1019DV33-10VXI	-65	0	500	30	0
VZ32420BLL	R	MR092036	R1	CY7C1019DV33-10VXI	-65	0	1000	28	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	-65	0	500	30	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	-65	0	1000	30	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	-65	0	500	30	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	-65	0	1000	30	0
Summary for Package Family: SOIC (J-Lead, Pb-Free)				33	records				
Sum								1862	0
SOIC (Pb-Free)									
SZ815VAGN	M	071904	R2	CY24C16L-3SXIES	150	0	500	77	0
SZ815VAGN	M	071904	R2	CY24C16L-3SXIES	150	0	1000	77	0
SZ815VAGN	M	071904	R3	CY24C16L-3SXIES	150	0	500	77	0
SZ815VAGN	M	071904	R3	CY24C16L-3SXIES	150	0	1000	77	0
SZ815VAGN	M	071904	R4	CY24C16L-3SXIES	150	0	500	76	0
SZ815VAGN	M	071904	R4	CY24C16L-3SXIES	150	0	1000	76	0
SZ324513BN	R-CML	AR0833005	R1	CY62128BNLL-55SXI	150	0	800	17	0
SZ324513BN	R-CML	AR0833005	R1	CY62128BNLL-55SXI	150	0	500	17	0
SZ324513BN	R-CML	AR0833005	R1	CY62128BNLL-55SXI	150	0	1000	17	0
SZ32457BLN	R	AR0834005	R1	CG6707AM	150	0	800	15	0
SZ32457BLN	R	AR0834005	R1	CG6707AM	150	0	500	15	0
SZ32457BLN	R	AR0834005	R1	CG6707AM	150	0	300	17	0
SZ32457BLN	R	AR0834005	R1	CG6707AM	150	0	1000	15	0
SZ324513BN	R	AR0836005	R1	CY7C53120E2-10SXI	150	0	800	14	0
SZ324513BN	R	AR0836005	R1	CY7C53120E2-10SXI	150	0	500	14	0
SZ324513BN	R	AR0836005	R1	CY7C53120E2-10SXI	150	0	300	14	0

SZ324513BN	R	AR0836005	R1	CY7C53120E2-10SXI	150	0	1000	14	0
SZ324513BN	R	AR0836005	R1	CY7C53120E2-10SXI	150	0	100	14	0
SZ324513BN	R	AR0839005	R1	CY7C53120E2-10SXI	150	0	500	17	0
SZ324513BN	R	AR0839005	R1	CY7C53120E2-10SXI	150	0	300	17	0
SZ324513BN	R	AR0839005	R1	CY7C53120E2-10SXI	150	0	1000	14	0
SZ324513BN	R	AR0839005	R1	CY7C53120E2-10SXI	150	0	100	17	0
SZ32457BLN	R	AR0841005	R1	CY62128ELL-45SXIT	150	0	500	17	0
SZ32457BLN	R	AR0841005	R1	CY62128ELL-45SXIT	150	0	300	17	0
SZ32457BLN	R	AR0841005	R1	CY62128ELL-45SXIT	150	0	1000	17	0
SZ32457BLN	R	AR0841005	R1	CY62128ELL-45SXIT	150	0	100	17	0
SZ1615DGN	M	AR0844035	R1	CY7C63803-SXC	150	0	500	15	0
SZ1615DGN	M	AR0844035	R1	CY7C63803-SXC	150	0	1000	15	0
SZ32457BLN	R	AR0845005	R1	CY62128ELL-45SXIT	150	0	500	13	0
SZ32457BLN	R	AR0845005	R1	CY62128ELL-45SXIT	150	0	1000	11	0
SZ32457BLN	R	AR0851005	R1	CY62128ELL-45SXIT	150	0	500	17	0
SZ32457BLN	R	AR0851005	R1	CY62128ELL-45SXIT	150	0	1000	17	0
SZ32457BLN	R	AR0852005	R1	CY62128ELL-45SXIT	150	0	500	17	0
SZ32457BLN	R	AR0852005	R1	CY62128ELL-45SXIT	150	0	1000	17	0
SZ324513BN	R	AR0904005	R1	CY62128BNLL-55SXIT	150	0	500	20	0
SZ324513BN	R	AR0904005	R1	CY62128BNLL-55SXIT	150	0	1000	20	0
SZ1615DGN	M	AR0904020	R1	CS6803AAT	150	0	500	15	0
SZ1615DGN	M	AR0904020	R1	CS6803AAT	150	0	1000	15	0
SZ324513BN	R	AR0909005	R1	CY62128BNLL-55SXI	150	0	500	20	0
SZ324513BN	R	AR0909005	R1	CY62128BNLL-55SXI	150	0	1000	20	0
SZ32457BLN	R	AR0911005	R1	CY62128ELL-45SXIT	150	0	500	12	0
SZ32457BLN	R	AR0911005	R1	CY62128ELL-45SXIT	150	0	1000	12	0
SZ1615DGN	M	AR0912014	R1	CS6803AAT	150	0	500	15	0
SZ1615DGN	M	AR0912014	R1	CS6803AAT	150	0	1000	15	0
SZ815DAGN	M	AR0921019	R1	CY27020SXCT	150	0	500	15	0
SZ815DAGN	M	AR0921019	R1	CY27020SXCT	150	0	1000	15	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	-65	0	2000	74	0
SZ183CGAN	RA-CML	MR082012	R1	CY7C63723C-SXC	-65	0	1500	80	0
SZ323ABAGS	M-PHILS	MR082050	R1	CY14B101L-SZ45XCT	-65	0	500	80	0
SZ323ABAGS	M-PHILS	MR082050	R1	CY14B101L-SZ45XCT	-65	0	1000	80	0
SZ183CBGAN	RA-CML	MR083019	R1	CY7C63723C-SXC	-65	0	1500	77	0
SZ2035BAL	R	MR084005	R1	CY8C24223A-24SXI	-65	0	500	80	0
SZ2035BAL	R	MR084005	R1	CY8C24223A-24SXI	-65	0	1000	80	0
SZ815DAGN	M	MR084018	R1	CY2304SXI-2	-65	0	500	80	0
SZ815DAGN	M	MR084018	R1	CY2304SXI-2	-65	0	1000	80	0
SZ1615BKGN	RA	MR084020	R1	CY2309SXC-1HT	-65	0	500	79	0
SZ1615BKGN	RA	MR084020	R1	CY2309SXC-1HT	-65	0	1000	79	0
SZ183CBGAN	RA	MR084026	R1	CY7C63723C-SXC	-65	0	500	80	0
SZ183CBGAN	RA	MR084026	R1	CY7C63723C-SXC	-65	0	1000	80	0
SZ24315BGN	RA	MR084029	R1	CY7C63743C-SXC	-65	0	500	80	0

SZ24315BGN	RA	MR084029	R1	CY7C63743C-SXC	-65	0	1000	80	0
SZ24312BGN	R	MR084033	R1	CY7C63743C-SXC	-65	0	500	80	0
SZ24312BGN	R	MR084033	R1	CY7C63743C-SXC	-65	0	1000	79	0
SZ815PABGN	RA	MR084061	R1	CY25560SXCT	-65	0	500	80	0
SZ815PABGN	RA	MR084061	R1	CY25560SXCT	-65	0	1000	80	0
SZ1615FAL	T	MR084072	R1	CY2309CSXC-1T	-65	0	500	80	0
SZ1615FAL	T	MR084072	R1	CY2309CSXC-1T	-65	0	1000	80	0
SZ2035BAL	R	MR091001	R1	CY8C27243-24SXI	-65	0	500	80	0
SZ2035BAL	R	MR091001	R1	CY8C27243-24SXI	-65	0	1000	79	0
SZ183CBGAN	RA	MR091003	R1	CY7C63723C-SXC	-65	0	500	79	0
SZ183CBGAN	RA	MR091003	R1	CY7C63723C-SXC	-65	0	1000	69	0
SZ32457BLN	R	MR091004	R1	CY62128ELL-45SXIT	-65	0	500	79	0
SZ32457BLN	R	MR091004	R1	CY62128ELL-45SXIT	-65	0	1000	79	0
SZ1615BKGN	RA	MR091016	R1	CY2308SXC-2T	-65	0	500	80	0
SZ1615BKGN	RA	MR091016	R1	CY2308SXC-2T	-65	0	1000	78	0
SZ1615EGN	M	MR091020	R1	CY2309SXI-1HT	-65	0	500	80	0
SZ1615EGN	M	MR091020	R1	CY2309SXI-1HT	-65	0	1000	80	0
SZ1615FAL	T	MR091058	R1	CY23EP09SXC-1HT	-65	0	500	79	0
SZ1615FAL	T	MR091058	R1	CY23EP09SXC-1HT	-65	0	1000	79	0
SZ2035BAL	R	MR092003	R1	CY8C27243-24SXI	-65	0	500	30	0
SZ2035BAL	R	MR092003	R1	CY8C27243-24SXI	-65	0	1000	30	0
SZ324513BN	R	MR092006	R1	CY7C53120E2-10SXI	-65	0	500	30	0
SZ324513BN	R	MR092006	R1	CY7C53120E2-10SXI	-65	0	1000	30	0
SZ183CBGAN	RA	MR092024	R1	CY7C63723C-SXC	-65	0	500	30	0
SZ183CBGAN	RA	MR092024	R1	CY7C63723C-SXC	-65	0	1000	30	0
SZ1615FAL	T	MR092025	R1	CY23EP09SXC-1HT	150	0	500	30	0
SZ1615FAL	T	MR092025	R1	CY23EP09SXC-1HT	150	0	1000	30	0
SZ1615DGN	M	MR092038	R1	CS6803AAT	-165	0	500	27	0
SZ1615DGN	M	MR092038	R1	CS6803AAT	-165	0	1000	25	0
SZ1615KDGN	RA	MR093002	R1	CY2308SXC-1	-65	0	500	30	0
SZ1615KDGN	RA	MR093002	R1	CY2308SXC-1	-65	0	1000	30	0
SZ24315BGN	RA	MR093011	R1	CY7C63743C-SXC	-65	0	500	30	0
SZ24315BGN	RA	MR093011	R1	CY7C63743C-SXC	-65	0	1000	26	0
SZ32457BLN	R	MR093019	R1	CY62128ELL-45SXIT	-65	0	500	30	0
SZ32457BLN	R	MR093019	R1	CY62128ELL-45SXIT	-65	0	1000	30	0
SZ323ABAGS	M-PHIL	NR074002	R1	CY14B101L-SZ45XC	150	0	500	74	0
SZ323ABAGS	M-PHIL	NR074002	R1	CY14B101L-SZ45XC	150	0	1000	74	0
SZ324516LL	R	RR084008	R4	CG6727AM	150	0	500	77	0
SZ324516LL	R	RR084008	R4	CG6727AM	150	0	1000	77	0
Summary for Package Family: SOIC (Pb-Free)			99	records					
Sum								4471	0
SSOP									
O2822XAGB	M	AR0907018	R1	CY2310ANZPVC-1T	150	0	500	15	0
O2822XAGB	M	AR0907018	R1	CY2310ANZPVC-1T	150	0	1000	13	0

O483ABXAGN	R	MR092029	R1	CY2318ANZPVC-11T	-65	0	500	30	0
O483ABXAGN	R	MR092029	R1	CY2318ANZPVC-11T	-65	0	1000	30	0
O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	-65	0	500	30	0
O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	-65	0	1000	30	0
Summary for Package Family: SSOP			6	records					
Sum									148
SSOP (Pb-Free)									0
SP483AGAN	R	084703	R1	CY8C20566-24PVXI	150	0	500	77	0
SP483AGAN	R	084703	R1	CY8C20566-24PVXI	150	0	1000	77	0
SP483ACGAN	R	084703	R2	CY8CTMG200-48PVXI	150	0	500	77	0
SP483ACGAN	R	084703	R2	CY8CTMG200-48PVXI	150	0	1000	77	0
SP483ACGAN	R	084703	R3	CY8C20546-24PVXI	150	0	500	77	0
SP483ACGAN	R	084703	R3	CY8C20546-24PVXI	150	0	1000	77	0
SP483ACGAN	R	090301	R1A	CY8C20566-24PVXI	150	0	500	77	0
SP483ACGAN	R	090301	R1A	CY8C20566-24PVXI	150	0	1000	77	0
SP483ACGAN	R	090301	R1B	CY8C20566-24PVXI	150	0	500	77	0
SP483ACGAN	R	090301	R1B	CY8C20566-24PVXI	150	0	1000	77	0
SP483ACGAN	R	090301	R1C	CY8C20566-24PVXI	150	0	500	77	0
SP483ACGAN	R	090301	R1C	CY8C20566-24PVXI	150	0	1000	77	0
SP483ACGAN	R	090301	R2B	CY8C20566-24PVXI	150	0	500	77	0
SP483ACGAN	R	090301	R2B	CY8C20566-24PVXI	150	0	1000	77	0
SP483EBBAL	R	090604	R1	CY7C1401	150	0	500	80	0
SP483EBBAL	R	090604	R1	CY7C1401	150	0	1000	80	0
SP28215BGL	RA-CML	AR0831012	R1	CY8C24423A-RASPI	150	0	1000	11	0
SP28215BGL	RA-CML	AR0831019	R1	CY8C24423A-RASPI	150	0	1000	20	0
SP28215BGL	RA-CML	AR0831021	R1	CY8C21534-24PVXI	150	0	1000	20	0
SP282ABAGN	RA	AR0835012	R1	CY8C27443-24PVXI	150	0	800	14	0
SP282ABAGN	RA	AR0835012	R1	CY8C27443-24PVXI	150	0	500	14	0
SP282ABAGN	RA	AR0835012	R1	CY8C27443-24PVXI	150	0	300	14	0
SP282ABAGN	RA	AR0835012	R1	CY8C27443-24PVXI	150	0	1000	14	0
SP282ABAGN	RA	AR0835019	R1	CY8C27443-24PVXI	150	0	800	18	0
SP282ABAGN	RA	AR0835019	R1	CY8C27443-24PVXI	150	0	500	18	0
SP282ABAGN	RA	AR0835019	R1	CY8C27443-24PVXI	150	0	300	18	0
SP282ABAGN	RA	AR0835019	R1	CY8C27443-24PVXI	150	0	1000	18	0
SP282ABAGN	RA	AR0835021	R1	CY8C27443-24PVXIT	150	0	800	18	0
SP282ABAGN	RA	AR0835021	R1	CY8C27443-24PVXIT	150	0	500	18	0
SP282ABAGN	RA	AR0835021	R1	CY8C27443-24PVXIT	150	0	300	18	0
SP282ABAGN	RA	AR0835021	R1	CY8C27443-24PVXIT	150	0	1000	18	0
SP282ABAGN	RA	AR0840012	R1	CY8C24423A-24PVXI	150	0	500	20	0
SP282ABAGN	RA	AR0840012	R1	CY8C24423A-24PVXI	150	0	500	15	0
SP282ABAGN	RA	AR0840012	R1	CY8C24423A-24PVXI	150	0	300	15	0
SP282ABAGN	RA	AR0840012	R1	CY8C24423A-24PVXI	150	0	1000	20	0
SP282ABAGN	RA	AR0840012	R1	CY8C24423A-24PVXI	150	0	100	15	0
SP282ABAGN	RA	AR0840021	R1	CY8C24423A-24PVXI	150	0	500	20	0

SP282ABAGN	RA	AR0840021	R1	CY8C24423A-24PVXI	150	0	300	20	0
SP282ABAGN	RA	AR0840021	R1	CY8C24423A-24PVXI	150	0	100	20	0
SP282ABAGN	RA	AR0841012	R1	CY8C27443-24PVXI	150	0	500	17	0
SP282ABAGN	RA	AR0841012	R1	CY8C27443-24PVXI	150	0	300	17	0
SP282ABAGN	RA	AR0841012	R1	CY8C27443-24PVXI	150	0	1000	17	0
SP282ABAGN	RA	AR0841012	R1	CY8C27443-24PVXI	150	0	100	17	0
SP282ABAGN	RA	AR0841019	R1	CY8C21534-24PVXIT	150	0	500	19	0
SP282ABAGN	RA	AR0841019	R1	CY8C21534-24PVXIT	150	0	300	19	0
SP282ABAGN	RA	AR0841019	R1	CY8C21534-24PVXIT	150	0	1000	19	0
SP282ABAGN	RA	AR0841019	R1	CY8C21534-24PVXIT	150	0	100	19	0
SP483EBBAL	R	AR0845003	R1	CY8C29666-24PVXIT	150	0	500	15	0
SP483EBBAL	R	AR0845003	R1	CY8C29666-24PVXIT	150	0	1000	15	0
SP282ABAGN	RA	AR0848012	R1	CY8C24423A-24PVXI	150	0	500	17	0
SP282ABAGN	RA	AR0848012	R1	CY8C24423A-24PVXI	150	0	1000	17	0
SP282ABAGN	RA	AR0848019	R1	CY8C24423A-24PVXI	150	0	500	20	0
SP282ABAGN	RA	AR0848019	R1	CY8C24423A-24PVXI	150	0	1000	20	0
SP282ABAGN	RA	AR0848021	R1	CY8C27443-24PVXI	150	0	500	20	0
SP282ABAGN	RA	AR0848021	R1	CY8C27443-24PVXI	150	0	1000	20	0
SP282ABAGN	RA	AR0851012	R1	CY8C21534-24PVXI	150	0	500	17	0
SP282ABAGN	RA	AR0851012	R1	CY8C21534-24PVXI	150	0	1000	17	0
SP282ABAGN	RA	AR0904013	R1	CY8C27443-24PVXI	150	0	500	20	0
SP282ABAGN	RA	AR0904013	R1	CY8C27443-24PVXI	150	0	1000	20	0
SP282ABAGN	RA	AR0906013	R1	CY8C27443-24PVXIT	150	0	500	17	0
SP282ABAGN	RA	AR0906013	R1	CY8C27443-24PVXIT	150	0	1000	17	0
SP483EBBAL	R	AR0907003	R1	CY8C29666-24PVXIT	150	0	500	19	0
SP483EBBAL	R	AR0907003	R1	CY8C29666-24PVXIT	150	0	1000	19	0
SP282ABAGN	RA	AR0909013	R1	CY8C24533-24PVXI	150	0	500	20	0
SP282ABAGN	RA	AR0909013	R1	CY8C24533-24PVXI	150	0	1000	20	0
SP282ABAGN	RA	AR0914013	R1	CY8C21534-24PVXIT	150	0	500	17	0
SP282ABAGN	RA	AR0914013	R1	CY8C21534-24PVXIT	150	0	1000	17	0
SP483EBBAL	R	AR0916003	R1	CY8C29666-24PVXIT	150	0	500	20	0
SP483EBBAL	R	AR0916003	R1	CY8C29666-24PVXIT	150	0	1000	20	0
SP483EBBAL	R	AR0921003	R1	CY8C29666-24PVXI	150	0	500	20	0
SP483EBBAL	R	AR0921003	R1	CY8C29666-24PVXI	150	0	1000	20	0
SP282ABAGN	RA	AR0923013	R1	CY8C27443-24PVXI	150	0	500	20	0
SP282ABAGN	RA	AR0923013	R1	CY8C27443-24PVXI	150	0	1000	20	0
SP483EBBAL	R	AR0929003	R1	CY8C29666-24PVXIT	150	0	500	19	0
SP483EBBAL	R	AR0929003	R1	CY8C29666-24PVXIT	150	0	1000	19	0
SP483EBBAL	R	AR0930003	R1	CY8C29666-24PVXIT	150	0	500	18	0
SP483EBBAL	R	AR0930003	R1	CY8C29666-24PVXIT	150	0	1000	18	0
SP282ABAGN	RA	AR0930013	R1	CY8C27443-24PVXIT	150	0	500	20	0
SP282ABAGN	RA	AR0930013	R1	CY8C27443-24PVXIT	150	0	1000	20	0
SP483EBBAL	R	AR0931003	R1	CY8C29666-24PVXIT	150	0	500	18	0
SP483EBBAL	R	AR0931003	R1	CY8C29666-24PVXIT	150	0	1000	18	0

SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	-65	0	2000	70	0
SP483HAAGR	M-PHILS	MR082071	R1	CY14B101L-SP45XC	-65	0	1500	70	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	-65	0	2500	80	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	-65	0	2000	80	0
SP28215BGL	RA-CML	MR083021	R1	CY8C21534-24PVXI	-65	0	1500	80	0
SP2824HAN	T	MR084021	R1	CY8C24533-24PVXI	-65	0	500	80	0
SP2824HAN	T	MR084021	R1	CY8C24533-24PVXI	-65	0	1000	80	0
SP483ABBAN	R	MR084030	R1	CY7C63413C-PVXC	-65	0	500	80	0
SP483ABBAN	R	MR084030	R1	CY7C63413C-PVXC	-65	0	1000	80	0
SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	-65	0	800	75	0
SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	-65	0	500	75	0
SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	-65	0	300	75	0
SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	-65	0	1000	73	0
SP483HAAGR	M	MR084043	R1	CY14B101L-SP45XC	-65	0	100	75	0
SP2822BGL	M	MR084059	R1	CY8C29466-24PVXA	-65	0	500	57	0
SP2822BGL	M	MR084059	R1	CY8C29466-24PVXA	-65	0	1000	57	0
SP483EBBAL	R	MR091005	R1	CY8C27643-24PVXI	-65	0	500	80	0
SP483EBBAL	R	MR091005	R1	CY8C27643-24PVXI	-65	0	1000	80	0
SP2822BGL	M	MR091006	R1	CY8C27443-12PVXE	-65	0	500	80	0
SP2822BGL	M	MR091006	R1	CY8C27443-12PVXE	-65	0	1000	80	0
SP2822BGL	M	MR091042	R1	CP6801ATT	-165	0	500	77	0
SP2822BGL	M	MR091042	R1	CP6801ATT	-165	0	1000	75	0
SP28214GL	T	MR091057	R1	CY7C64215-28PVXC	-65	0	500	80	0
SP28214GL	T	MR091057	R1	CY7C64215-28PVXC	-65	0	1000	80	0
SP483EBBAL	R-CML	MR092004	R1	CY8C29666-24PVXIT	-65	0	500	29	0
SP483EBBAL	R-CML	MR092004	R1	CY8C29666-24PVXIT	-65	0	1000	29	0
SP282ABAGN	RA	MR092035	R1	CY8C24423A-24PVXIT	150	0	500	28	0
SP282ABAGN	RA	MR092035	R1	CY8C24423A-24PVXIT	150	0	1000	28	0
SP2822BGL	M	MR092057	R1	CY8C29466-24PVXIES	-65	0	500	30	0
SP2822BGL	M	MR092057	R1	CY8C29466-24PVXIES	-65	0	1000	30	0
SP563DBBGN	R	MR093010	R1	CY7C66113C-PVXC	-65	0	500	30	0
SP563DBBGN	R	MR093010	R1	CY7C66113C-PVXC	-65	0	1000	30	0
SP483HAAGR	M	MR093024	R1	CY14B101L-SP45XCT	-65	0	500	30	0
SP483HAAGR	M	MR093024	R1	CY14B101L-SP45XCT	-65	0	1000	30	0
SP2814GAL	T	MR093027	R1	CS6835AT	-65	0	500	29	0
SP2814GAL	T	MR093027	R1	CS6835AT	-65	0	1000	29	0
SP2814HAL	M	MR093052	R1	CS6835AT	-65	0	500	30	0
SP2814HAL	M	MR093052	R1	CS6835AT	-65	0	1000	30	0
SP483AGAN	R	RR084008	R1	CS6681AM	150	0	500	75	0
SP483AGAN	R	RR084008	R1	CS6681AM	150	0	1000	75	0
SP563BGAL	R	RR084008	R2	CY7C68301C-56PVXC	150	0	500	75	0
SP563BGAL	R	RR084008	R2	CY7C68301C-56PVXC	150	0	1000	75	0
SP483HAAGR	M	RR084019	R1	CY14B101L-SP45XCT	150	0	500	15	0
SP483HAAGR	M	RR084019	R1	CY14B101L-SP45XCT	150	0	1000	14	0

SP483HAAGR	M	RR084019	R2	CY14B101L-SP45XC	150	0	500	15	0
SP483HAAGR	M	RR084019	R2	CY14B101L-SP45XC	150	0	1000	15	0
SP483HAAGR	M	RR084019	R3	CY14B101L-SP45XCT	150	0	500	15	0
SP483HAAGR	M	RR084019	R3	CY14B101L-SP45XCT	150	0	1000	15	0
SP483HAAGR	M	RR084019	R4	CY14B101L-SP45XCT	150	0	500	14	0
SP483HAAGR	M	RR084019	R4	CY14B101L-SP45XCT	150	0	1000	13	0
SP483HAAGR	M	RR084019	R5	CY14B101L-SP45XCT	150	0	500	15	0
SP483HAAGR	M	RR084019	R5	CY14B101L-SP45XCT	150	0	1000	15	0
SP483HAAGR	M	RR084019	R6	CY14B101L-SP45XCT	150	0	500	15	0
SP483HAAGR	M	RR084019	R6	CY14B101L-SP45XCT	150	0	1000	15	0
Summary for Package Family: SSOP (Pb-Free)			135	records				5119	0
Sum									
TQFP									
A32GAAAAGB	L	082206	R3	CY29942AI	150	0	500	77	0
A32LXGXGB	Q	MR091043	R1	CY29948ACT	-65	0	500	79	0
A32LXGXGB	Q	MR091043	R1	CY29948ACT	-65	0	1000	79	0
A52AEGAGE	Q	MR092010	R1	CY29976AXI	150	0	500	30	0
A52AEGAGE	Q	MR092010	R1	CY29976AXI	150	0	1000	30	0
Summary for Package Family: TQFP			5	records				295	0
Sum									
TQFP (10mm X 10mm)									
AS64CGAGB	Q	082206	R2	CY29942AI	150	0	500	77	0
AS64CGAGB	Q	082206	R2	CY29942AI	150	0	1000	77	0
AS64CGAGB	Q	MR091053	R1	CY7C4285V-15ASC	-65	0	500	80	0
AS64CGAGB	Q	MR091053	R1	CY7C4285V-15ASC	-65	0	1000	80	0
Summary for Package Family: TQFP (10mm X 10mm)			4	records				314	0
Sum									
TQFP (Pb-Free)									
AZ44SGGAN	R	082201	R1	CY8C22545-24AXI	150	0	500	77	0
AZ44SGGAN	R	082201	R1	CY8C22545-24AXI	150	0	1000	76	0
AZ100RBBLN	R	MR084002	R1	CY7C1370D-167AXI	-65	0	500	80	0
AZ100RBBLN	R	MR084002	R1	CY7C1370D-167AXI	-65	0	1000	80	0
AZ44SFGAN	R	MR084010	R1	CY37032P44-125AXC	-65	0	500	80	0
AZ44SFGAN	R	MR084010	R1	CY37032P44-125AXC	-65	0	1000	80	0
AZ32LXGAN	Q	MR084017	R1	CY29948AXC	-65	0	500	80	0
AZ32LXGAN	Q	MR084017	R1	CY29948AXC	-65	0	1000	80	0
AZ32GXGAN	G	MR084042	R1	CY29940AXCT	-65	0	500	80	0
AZ32GXGAN	G	MR084042	R1	CY29940AXCT	-65	0	1000	80	0
AZ128SABLL	R	MR084054	R1	7C681000BC-**RAZC	-165	0	500	79	0
AZ128SABLL	R	MR084054	R1	7C681000BC-**RAZC	-165	0	1000	79	0
AZ32LXGAN	Q	MR091022	R1	CY29946AXCT	-65	0	500	80	0
AZ32LXGAN	Q	MR091022	R1	CY29946AXCT	-65	0	1000	79	0
AZ100RUBLN	R	MR091026	R1	CY7C1350G-133AXC	-65	0	500	79	0
AZ100RUBLN	R	MR091026	R1	CY7C1350G-133AXC	-65	0	1000	79	0

AZ44SGBGAN	RA	MR092001	R1	CY8C29566-24AXI	-165	0	500	30	0
AZ44SGBGAN	RA	MR092001	R1	CY8C29566-24AXI	-165	0	1000	30	0
AZ52ASGAL	Q	MR092008	R1	CY7B9973V-AXC	-65	0	500	30	0
AZ52ASGAL	Q	MR092008	R1	CY7B9973V-AXC	-65	0	1000	30	0
AZ32GXGAN	G	MR092033	R1	CY29940AXCT	-65	0	500	30	0
AZ32GXGAN	G	MR092033	R1	CY29940AXCT	-65	0	1000	30	0
AZ32GXGAN	G	MR092045	R1	CY29940AXC	-65	0	500	29	0
AZ32GXGAN	G	MR092045	R1	CY29940AXC	-65	0	1000	29	0
AZ144AAAGR	Q	MR092060	R1	CY7C057V-12AXC	-65	0	500	30	0
AZ144AAAGR	Q	MR092060	R1	CY7C057V-12AXC	-65	0	1000	30	0
AZ100KGAN	G	MR092064	R1	CY7C09169AV-12AXC	-65	0	500	30	0
AZ100KGAN	G	MR092064	R1	CY7C09169AV-12AXC	-65	0	1000	30	0
AZ32GXGAN	G	MR093031	R1	CY29940AXC	-65	0	500	30	0
AZ32GXGAN	G	MR093031	R1	CY29940AXC	-65	0	1000	30	0
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	-65	0	500	30	0
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	-65	0	1000	30	0
AZ44SFBGLN	R	MR093042	R1	CY7C53120E2-10AXI	-65	0	500	30	0
AZ44SFBGLN	R	MR093042	R1	CY7C53120E2-10AXI	-65	0	1000	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	-65	0	500	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	-65	0	1000	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	-65	0	500	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	-65	0	1000	30	0
AZ100RBBLN	R	NR083003	R2	CY7C1372D-167AXIT	150	0	500	79	0
AZ100RBBLN	R	NR083003	R2	CY7C1372D-167AXIT	150	0	1000	79	0
AZ100RBBLN	R	NR083003	R3	CY7C1370D-167AXIT	150	0	500	80	0
AZ100RBBLN	R	NR083003	R3	CY7C1370D-167AXIT	150	0	1000	80	0
Summary for Package Family: TQFP (Pb-Free)			42	records				2244	0
Sum									
TSOP (Pb-free)									
ZT48AKAALL	T	084612	R1	CY62177EV30LL	150	0	500	85	0
ZT48AKAALL	T	084612	R1	CY62177EV30LL	150	0	1000	79	0
ZT48AKAALL	T	084612	R2	CY62177EV30LL	150	0	500	85	0
ZT48AKAALL	T	084612	R2	CY62177EV30LL	150	0	1000	85	0
ZT48AKAALL	T	084612	R3	CY62177EV30LL	150	0	500	85	0
ZT48AKAALL	T	084612	R3	CY62177EV30LL	150	0	1000	85	0
ZT48AJAALL	T	091202	R1	CY62177EV30LL	150	0	500	76	0
ZT48AJAALL	T	091202	R1	CY62177EV30LL	150	0	1000	75	0
ZT48AJAALL	T	091202	R2	CY62177EV30LL	150	0	500	76	0
ZT48AJAALL	T	091202	R2	CY62177EV30LL	150	0	1000	76	0
ZT48AJAALL	T	091202	R3	CY62177EV30LL	150	0	500	74	0
ZT48AJAALL	T	091202	R3	CY62177EV30LL	150	0	1000	74	0
ZT32RAEBLN	RA	MR084006	R1	CG6708AMT	-65	0	500	80	0
ZT32RAEBLN	RA	MR084006	R1	CG6708AMT	-65	0	1000	80	0
ZT32RABALL	T	MR084057	R1	CY62128BNLL-55ZXI	-65	0	500	93	0

ZT32RABALL	T	MR084057	R1	CY62128BNLL-55ZXI	-65	0	1000	93	0
ZT28R2BBLN	R	MR084060	R1	CY62256VNLL-70ZXC	-65	0	500	80	0
ZT28R2BBLN	R	MR084060	R1	CY62256VNLL-70ZXC	-65	0	1000	80	0
ZT28R2BBLN	R	MR091012	R1	CY62256NLL-55ZXIT	-65	0	500	80	0
ZT28R2BBLN	R	MR091012	R1	CY62256NLL-55ZXIT	-65	0	1000	80	0
ZT32RAEBLN	RA	MR091014	R1	CY62128EV30LL-45ZXI	-65	0	500	80	0
ZT32RAEBLN	RA	MR091014	R1	CY62128EV30LL-45ZXI	-65	0	1000	80	0
ZT32RABALL	T	MR091021	R1	CY62128EV30LL-45ZXI	-65	0	500	80	0
ZT32RABALL	T	MR091021	R1	CY62128EV30LL-45ZXI	-65	0	1000	80	0
ZT28R2BBLN	R	MR092018	R1	CY62256VNLL-70ZXCT	-65	0	500	30	0
ZT28R2BBLN	R	MR092018	R1	CY62256VNLL-70ZXCT	-65	0	1000	30	0
ZT32RBBALL	T	MR092059	R1	CY62128ELL-45ZXAT	-65	0	500	30	0
ZT32RBBALL	T	MR092059	R1	CY62128ELL-45ZXAT	-65	0	1000	27	0
ZT28R4BGL	R	MR092063	R1	CY7C1399BN-12ZXC	-65	0	500	30	0
ZT28R4BGL	R	MR092063	R1	CY7C1399BN-12ZXC	-65	0	1000	28	0
ZT32RAEDLN	RA	MR093006	R1	CY62128ELL-45ZXIT	-65	0	500	30	0
ZT32RAEDLN	RA	MR093006	R1	CY62128ELL-45ZXIT	-65	0	1000	30	0
ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	-65	0	500	30	0
ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	-65	0	1000	28	0
Summary for Package Family: TSOP (Pb-free)			34	records				2234	0
Sum									
TSOP I (Pb-Free)									
ZB32RHAALN	R	093104	R4	CY62138FV30LL-45ZAXI	150	0	500	90	0
ZB32RHAALN	R	093104	R5	CY62138FV30LL-45ZAXI	150	0	500	90	0
ZB32RHAALN	R	093104	R6	CY62138FV30LL-45ZAXI	150	0	500	90	0
ZB32RHBALN	R	MR084036	R1	CG7091AM	-65	0	500	80	0
ZB32RHBALN	R	MR084036	R1	CG7091AM	-65	0	1000	80	0
ZB32RHBALN	R	MR091031	R1	CG7086AM	-65	0	500	80	0
ZB32RHBALN	R	MR091031	R1	CG7086AM	-65	0	1000	80	0
ZB32RHBALN	R	MR092014	R1	CG7086AMT	150	0	500	30	0
ZB32RHBALN	R	MR092014	R1	CG7086AMT	150	0	1000	30	0
ZB32RHALL	R	RR084008	R5	CY62128DV30LL-55ZAXIT	150	0	500	77	0
ZB32RHALL	R	RR084008	R5	CY62128DV30LL-55ZAXIT	150	0	1000	77	0
Summary for Package Family: TSOP I (Pb-Free)			11	records				804	0
Sum									
TSOP II (Pb-Free)									
ZW444GALL	R-CML	071304	R8	CY14B104L	150	0	1000	80	0
ZW444GALL	R	071304	R9	7C1404B6BC-**RZWCB	150	0	500	80	0
ZW444GALL	R	071304	R9	7C1404B6BC-**RZWCB	150	0	1000	79	0
ZW444ZALL	G	082703	R1	CY14B108L-ZS25XIES	150	0	500	80	0
ZW444ZALL	G	082703	R1	CY14B108L-ZS25XIES	150	0	1000	80	0
ZW444ZALL	G	082703	R2	7C1408B8BC-GZWIB	150	0	500	77	0
ZW444ZALL	G	082703	R2	7C1408B8BC-GZWIB	150	0	1000	77	0
ZW444ZALL	G	082703	R3	7C1408B8BC-GZWIB	150	0	500	77	0

ZW444ZALL	G	082703	R3	7C1408B8BC-GZWIB	150	0	1000	77	0
ZW444GALL	R	082704	R1	CY7C1404B	150	0	500	75	0
ZW444GALL	R	082704	R1	CY7C1404B	150	0	1000	74	0
ZW444GALL	R	082704	R2	7C1404B1CC-**RZWC	150	0	500	77	0
ZW444GALL	R	082704	R2	7C1404B1CC-**RZWC	150	0	1000	77	0
ZW444AHBLL	R	085004	R1	CY7C1021DV33-10ZSXI	150	0	500	80	0
ZW444AHBLL	R	085004	R1	CY7C1021DV33-10ZSXI	150	0	1000	80	0
ZW444AHBLL	R	085004	R2	CY7C1021DV33-10ZSXI	150	0	500	80	0
ZW444AHBLL	R	085004	R2	CY7C1021DV33-10ZSXI	150	0	1000	80	0
ZW444AHBLL	R	085004	R3	CY7C1021DV33-10ZSXI	150	0	500	80	0
ZW444AHBLL	R	085004	R3	CY7C1021DV33-10ZSXI	150	0	1000	80	0
ZW444AJBLN	R-CML	MR083071	R1	CY7C1021CV33-10ZXC	-65	0	500	80	0
ZW444AJBLN	R-CML	MR083071	R1	CY7C1021CV33-10ZXC	-65	0	1000	80	0
ZW444AHBLL	R	MR084007	R1	CG6850AM	-65	0	500	80	0
ZW444AHBLL	R	MR084007	R1	CG6850AM	-65	0	1000	80	0
ZW324CBLL	T	MR084025	R1	CG7092AM	-65	0	500	80	0
ZW324CBLL	T	MR084025	R1	CG7092AM	-65	0	1000	80	0
ZW544AALL	G	MR084038	R1	CY7C1061AV33-10ZXC	-65	0	500	80	0
ZW544AALL	G	MR084038	R1	CY7C1061AV33-10ZXC	-65	0	1000	80	0
ZW444AMLN	R	MR091013	R1	CY62147DV30LL-55ZSXET	-65	0	500	78	0
ZW444AMLN	R	MR091013	R1	CY62147DV30LL-55ZSXET	-65	0	1000	77	0
ZW544AALL	G	MR091027	R1	CS6729AT	-65	0	500	80	0
ZW544AALL	G	MR091027	R1	CS6729AT	-65	0	1000	80	0
ZW324GALL	T	MR091056	R1	CY7C1019DV33-10ZSXI	-65	0	500	80	0
ZW324GALL	T	MR091056	R1	CY7C1019DV33-10ZSXI	-65	0	1000	80	0
ZW324CBLL	T	MR092015	R1	CY62148EV30LL-45ZSXI	150	0	500	30	0
ZW324CBLL	T	MR092015	R1	CY62148EV30LL-45ZSXI	150	0	1000	30	0
ZW54BGALL	G	MR092043	R1	CY7C1061DV33-10ZSXIT	-65	0	500	30	0
ZW54BGALL	G	MR092043	R1	CY7C1061DV33-10ZSXIT	-65	0	1000	30	0
ZW444RAGN	R	MR093015	R1	CY62137VNL-70ZSXAT	-65	0	500	30	0
ZW444RAGN	R	MR093015	R1	CY62137VNL-70ZSXAT	-65	0	1000	30	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	-65	0	500	30	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	-65	0	1000	30	0
ZW444AMBLN	R	RR084008	R3	CS6673ATT	150	0	500	75	0
ZW444AMBLN	R	RR084008	R3	CS6673ATT	150	0	1000	75	0
Summary for Package Family: TSOP II (Pb-Free)			43	records					
Sum								2995	0
TSSOP									
Z1620GBAGN	RA	MR084016	R1	CY2309ZC-1HT	-65	0	500	80	0
Z1620GBAGN	RA	MR084016	R1	CY2309ZC-1HT	-65	0	1000	80	0
Z0811XAGB	M	MR084064	R1	CY2304NZZI-1	-65	0	800	79	0
Z0811XAGB	M	MR084064	R1	CY2304NZZI-1	-65	0	500	79	0
Z0811XAGB	M	MR084064	R1	CY2304NZZI-1	-65	0	300	79	0
Z0811XAGB	M	MR084064	R1	CY2304NZZI-1	-65	0	1000	77	0

Z0811XAGB	M	MR084064	R1	CY2304NZZI-1	-65	0	100	79	0
Z0811XAGB	M	MR091036	R1	CY2304NZZI-1T	-65	0	500	79	0
Z0811XAGB	M	MR091036	R1	CY2304NZZI-1T	-65	0	1000	79	0
Z1620GBAGN	RA	MR092022	R1	CY2309ZC-1HT	-65	0	500	30	0
Z1620GBAGN	RA	MR092022	R1	CY2309ZC-1HT	-65	0	1000	30	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	-65	0	500	29	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	-65	0	1000	29	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	-65	0	500	30	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	-65	0	1000	30	0
Summary for Package Family: TSSOP			15	records					
Sum								889	0
TSSOP (Pb-Free)									
ZZ1614HAN	T	AR0904015	R1	CY23FS04ZXI-3	150	0	500	15	0
ZZ1614HAN	T	AR0904015	R1	CY23FS04ZXI-3	150	0	1000	15	0
ZZ0812BGL	T	AR0921015	R1	CYIFS781BZXCT	150	0	500	15	0
ZZ0812BGL	T	AR0921015	R1	CYIFS781BZXCT	150	0	1000	15	0
ZZ0812BGL	T-TAIWAN	MR083044	R1	CY24904ZXC	-65	0	800	80	0
ZZ0812BGL	T-TAIWAN	MR083044	R1	CY24904ZXC	-65	0	500	80	0
ZZ0812BGL	T-TAIWAN	MR083044	R1	CY24904ZXC	-65	0	1000	80	0
ZZ1620GBAN	RA	MR084022	R1	CY2308ZXC-1HT	-65	0	500	80	0
ZZ1620GBAN	RA	MR084022	R1	CY2308ZXC-1HT	-65	0	1000	80	0
ZZ0812BGL	T	MR084024	R1	CY25100ZXC38T	-65	0	800	79	0
ZZ0812BGL	T	MR084024	R1	CY25100ZXC38T	-65	0	500	79	0
ZZ0812BGL	T	MR084024	R1	CY25100ZXC38T	-65	0	300	79	0
ZZ0812BGL	T	MR084024	R1	CY25100ZXC38T	-65	0	1000	79	0
ZZ0812BGL	T	MR084024	R1	CY25100ZXC38T	-65	0	100	80	0
ZZ1619GAN	RA	MR084065	R1	CY2309CZXI-1H	-65	0	500	80	0
ZZ1619GAN	RA	MR084065	R1	CY2309CZXI-1H	-65	0	1000	80	0
ZZ1620GBAN	RA	MR091018	R1	CY2309ZXC-1HT	-65	0	500	80	0
ZZ1620GBAN	RA	MR091018	R1	CY2309ZXC-1HT	-65	0	1000	80	0
ZZ0812BGL	T	MR091019	R1	CY25100ZXC38T	-65	0	500	80	0
ZZ0812BGL	T	MR091019	R1	CY25100ZXC38T	-65	0	1000	80	0
ZZ1620GBAN	RA	MR092020	R1	CY2309ZXC-1HT	-65	0	500	30	0
ZZ1620GBAN	RA	MR092020	R1	CY2309ZXC-1HT	-65	0	1000	30	0
ZZ0812BGL	T	MR092023	R1	CYIFS781BZXCT	-65	0	500	28	0
ZZ0812BGL	T	MR092023	R1	CYIFS781BZXCT	-65	0	300	28	0
ZZ0812BGL	T	MR092023	R1	CYIFS781BZXCT	-65	0	1000	28	0
ZZ0812BGL	T	MR092023	R1	CYIFS781BZXCT	-65	0	100	28	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	-65	0	500	30	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	-65	0	1000	30	0
Summary for Package Family: TSSOP (Pb-Free)			28	records					
Sum								1568	0
VFBGA (0.75-0.8, 0.3mm)									
BV48AACALE	AT	MR084063	R1	CY62157DV30LL-70BVI	-65	0	500	80	0

BV48AACALE	AT	MR084063	R1	CY62157DV30LL-70BVI	-65	0	1000	80	0
BV48ABEALE	A	MR091041	R1	CY62167EV30LL-45BVI	-165	0	500	80	0
BV48ABEALE	A	MR091041	R1	CY62167EV30LL-45BVI	-165	0	1000	79	0
BV48ABEALE	AT	MR092012	R1	CY62167EV30LL-45BVI	-65	0	500	30	0
BV48ABEALE	AT	MR092012	R1	CY62167EV30LL-45BVI	-65	0	1000	30	0
BV48BNALE	G	RR084014	R1	CY62167DV30LL-55BVI	150	0	500	77	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			7	records					
Sum									456
									0

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

BZ48CNAALL	G	083301	R3A	CY62167DV	150	0	500	80	0
BZ48CNAALL	G	083301	R3B	CY62167DV	150	0	500	80	0
BZ48DAGLL	RA	090502	R1	CY62137FV30LL-45BVXI	150	0	500	77	0
BZ48DAGLL	RA	090502	R1	CY62137FV30LL-45BVXI	150	0	1000	77	0
BZ48DAGLL	RA	090502	R2	CY62137FV30LL-45BVXI	150	0	500	80	0
BZ48DAGLL	RA	090502	R2	CY62137FV30LL-45BVXI	150	0	1000	80	0
BZ48DAGLL	RA	090502	R3	CY62137FV30LL-45BVXI	150	0	500	80	0
BZ48DAGLL	RA	090502	R3	CY62137FV30LL-45BVXI	150	0	1000	80	0
BZ48DAGLL	RA	090502	R4	CY62137FV30LL-45BVXI	150	0	500	75	0
BZ48DAGLL	RA	090502	R4	CY62137FV30LL-45BVXI	150	0	1000	74	0
BZ48ABDALL	AT-CARSEM	MR083060	R1	CY62137EV30LL-45BVXI	-65	0	1000	77	0
BZ56BGALL	RA	MR084011	R1	CY7C68013A-56BAXC	-65	0	500	80	0
BZ56BGALL	RA	MR084011	R1	CY7C68013A-56BAXC	-65	0	1000	80	0
BZ100DGALL	RA	MR084012	R1	CYWB0124AB-BVXIT	-65	0	500	80	0
BZ100DGALL	RA	MR084012	R1	CYWB0124AB-BVXIT	-65	0	1000	78	0
BZ48DAGLL	RA	MR084034	R1	CY62137FV30LL-45BVXIT	-65	0	500	80	0
BZ48DAGLL	RA	MR084034	R1	CY62137FV30LL-45BVXIT	-65	0	1000	79	0
BZ48CFAALL	G	MR084035	R1	CY62158EV30LL-45BVXI	-65	0	500	80	0
BZ48CFAALL	G	MR084035	R1	CY62158EV30LL-45BVXI	-65	0	1000	79	0
BZ100DGALL	RA	MR084069	R1	CYWB0124AB-BVXIT	-65	0	500	62	0
BZ100DGALL	RA	MR084069	R1	CYWB0124AB-BVXIT	-65	0	1000	60	0
BZ100DGALL	RA	MR084069	R2	CYWB0124AB-BVXIT	-65	0	500	80	0
BZ100DGALL	RA	MR084069	R2	CYWB0124AB-BVXIT	-65	0	1000	80	0
BZ100DGALL	RA	MR084069	R3	CYWB0124AB-BVXIT	-65	0	500	79	0
BZ100DGALL	RA	MR084069	R3	CYWB0124AB-BVXIT	-65	0	1000	78	0
BZ56IAAAGL	AT	MR084071	R1	CY7C68053-56BAXIT	-65	0	500	80	0
BZ56IAAAGL	AT	MR084071	R1	CY7C68053-56BAXIT	-65	0	1000	77	0
BZ100DGALL	RA	MR084073	R1	CYWB0124AB-BVXIT	-65	0	500	80	0
BZ100DGALL	RA	MR084073	R1	CYWB0124AB-BVXIT	-65	0	1000	80	0
BZ100DGALL	RA	MR091015	R1	CYWB0124AB-BVXI	-65	0	500	80	0
BZ100DGALL	RA	MR091015	R1	CYWB0124AB-BVXI	-65	0	1000	77	0
BZ100DAALL	G	MR091028	R1	CS7129AMT	-65	0	500	79	0
BZ100DAALL	G	MR091028	R1	CS7129AMT	-65	0	1000	79	0
BZ48CFAALL	G	MR091029	R1	CY62157EV30LL-45BVXI	-65	0	500	80	0
BZ48CFAALL	G	MR091029	R1	CY62157EV30LL-45BVXI	-65	0	1000	80	0

BZ48DAGLL	RA	MR091033	R1	CY62137FV30LL-45BVXIT	-65	0	500	80	0
BZ48DAGLL	RA	MR091033	R1	CY62137FV30LL-45BVXIT	-65	0	1000	80	0
BZ48ABEALL	AT	MR091034	R1	CY62167EV30LL-45BVXI	-65	0	500	80	0
BZ48ABEALL	AT	MR091034	R1	CY62167EV30LL-45BVXI	-65	0	1000	80	0
BZ48ABBLL	AT	MR092011	R1	CY62127DV30LL-55BVXIT	150	0	500	30	0
BZ48ABBLL	AT	MR092011	R1	CY62127DV30LL-55BVXIT	150	0	1000	28	0
BZ48DAGLL	RA	MR092016	R1	CY62137FV30LL-45BVXIT	-65	0	500	30	0
BZ48DAGLL	RA	MR092016	R1	CY62137FV30LL-45BVXIT	-65	0	1000	30	0
BZ48CHAALL	G	MR092031	R1	CY62126EV30LL-55BVXE	-65	0	500	30	0
BZ48CHAALL	G	MR092031	R1	CY62126EV30LL-55BVXE	-65	0	1000	30	0
BZ100HAALL	RA	MR092061	R1	CYWB0224ABS-BVXI	-65	0	500	30	0
BZ100HAALL	RA	MR092061	R1	CYWB0224ABS-BVXI	-65	0	1000	28	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	150	0	500	30	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	150	0	1000	30	0
BZ48CFBALL	G	MR093025	R1	CY62157EV30LL-45BVXA	-65	0	500	30	0
BZ48CFBALL	G	MR093025	R1	CY62157EV30LL-45BVXA	-65	0	1000	30	0
BZ56BGALL	RA	MR093036	R1	CY7C68013A-56BAXC	-65	0	500	30	0
BZ56BGALL	RA	MR093036	R1	CY7C68013A-56BAXC	-65	0	1000	30	0
BZ48ABCALL	AT	MR093059	R1	CG6851AM	-65	0	500	30	0
BZ48ABCALL	AT	MR093059	R1	CG6851AM	-65	0	1000	28	0
BZ48CNAALL	G	RR084006	R1	CY62167DV30LL-55BVXIT	150	0	100	19	0
BZ48CNAALL	G	RR084006	R1	CY62167DV30LL-55BVXIT	150	0	500	16	0
BZ48CNAALL	G	RR084006	R1	CY62167DV30LL-55BVXIT	150	0	300	17	0
BZ48CNAALL	G	RR084006	R1	CY62167DV30LL-55BVXIT	150	0	700	15	0
BZ48CNAALL	G	RR084006	R1	CY62167DV30LL-55BVXIT	150	0	1000	14	0
BZ48CNAALL	G	RR084006	R2	CY62167DV30LL-55BVXI	150	0	100	18	0
BZ48CNAALL	G	RR084006	R2	CY62167DV30LL-55BVXI	150	0	300	16	0
BZ48CNAALL	G	RR084006	R2	CY62167DV30LL-55BVXI	150	0	500	14	0
BZ48CNAALL	G	RR084006	R2	CY62167DV30LL-55BVXI	150	0	700	13	0
BZ48CNAALL	G	RR084006	R2	CY62167DV30LL-55BVXI	150	0	1000	12	0
BZ48CNAALL	G	RR084006	R3	CY62167DV30LL-55BVXI	150	0	100	18	0
BZ48CNAALL	G	RR084006	R3	CY62167DV30LL-55BVXI	150	0	300	17	0
BZ48CNAALL	G	RR084006	R3	CY62167DV30LL-55BVXI	150	0	500	16	0
BZ48CNAALL	G	RR084006	R3	CY62167DV30LL-55BVXI	150	0	700	15	0
BZ48CNAALL	G	RR084006	R3	CY62167DV30LL-55BVXI	150	0	1000	14	0
Summary for Package Family: VF8GA (0.75-0.8, 0.3mm, Pb-Free)			70	records					
Sum								3755	0