



2010 Q2 RELIABILITY REPORT

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

This report summarizes Cypress Semiconductor Product Reliability for the period of the 2nd quarter of 2010. 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
0.25Um	11,368	0	Insufficient	0	None
B53	162,998	0	33	0	None
C8	584,540	0	9	0	None
C9	2,558,276	11	14	209	Fab defect-11 (see Note 2)
LL65	1,309,187	0	4	0	None
P26	14,400	0	Insufficient	0	None
R4	152,589	0	35	0	None
R5	14,400	0	Insufficient	0	None
R7	888,720	0	0	0	None
R8	825,448	0	0	0	None
R9	1,006,557	1	6	48	General Fab Defect (Non-Visual) (see Note 3)
R95	327,663	0	16	0	None
S4	3,028,606	0	2	0	None
S8	1,599,875	3	8	90	2 -General Fab Defect (Non-Visual) (see Note 3) 1- Fab Defect (see Note 4)
Grand Total	12,484,630	15	4	54	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 (For MR093071-2E1) – Tungsten particle reduction in the Local Interconnect layers and improved test screens
 CAR 200939025 (For 093204-2E1) – On-going root cause analysis
 3) Non-Visual Defects will be covered by continuous improvement at Fab
 4) CAR 201014001 - Improved Test Screens

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
0.25um	122,947	0	Insufficient	None
B53	38,105	0	Insufficient	None
C8	740,737	0	7	None
C9	290,000	0	19	None
LL65P-18R	748,432	0	7	None
R42	68,440	0	Insufficient	None
R5	174,000	0	0	None
R7	461,200	0	0	None
R8	519,103	0	10	None
R95	456,000	0	12	None
S4	1,449,498	0	4	None
S8	2,162,273	0	2	None
Grand Total	7,230,735	0	0	None

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

2.3 DATA RETENTION SUMMARY

A high-temperature, non-biased bake test ensures that data retention meets established reliability goals. The devices are baked without bias at either 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	2,600	1,431,014	0	0	None
S8	3,518	2,814,437	0	0	None
0.25um	320	240,000	0	0	None
Grand Total	6,438	4,485,451	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.

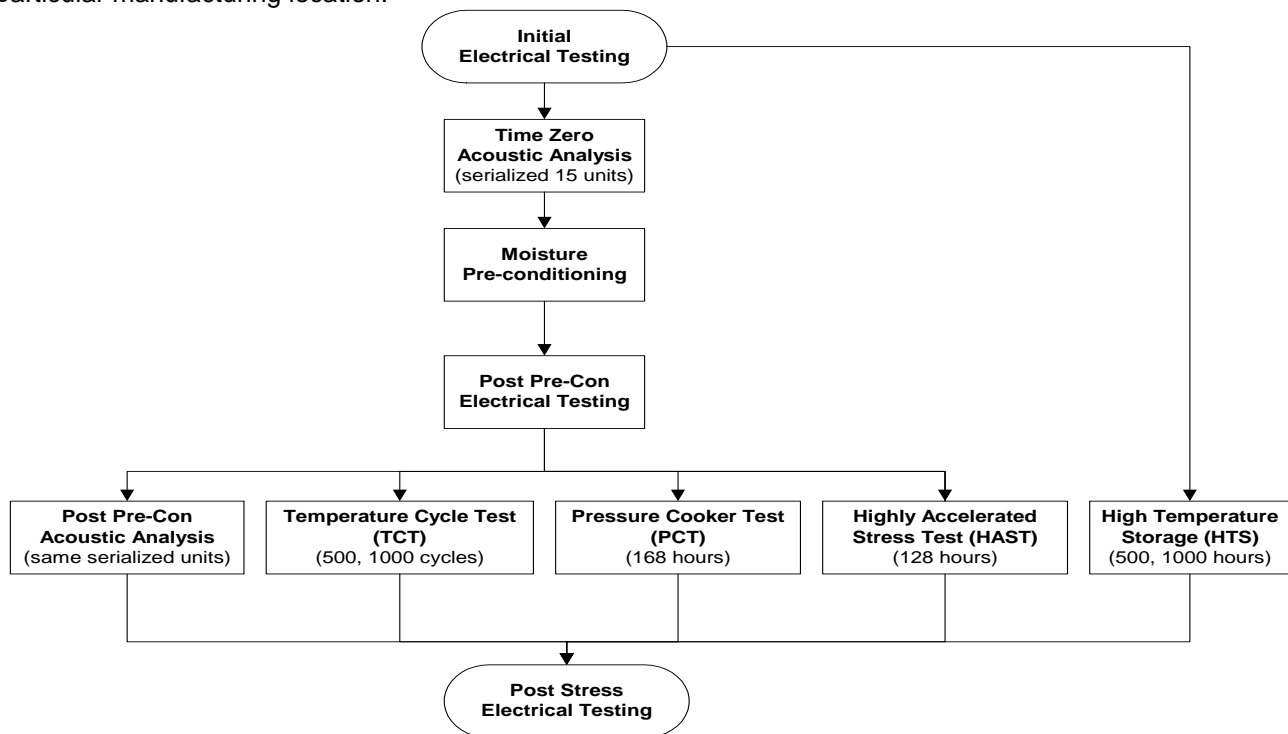


Figure 1. Cypress Package Reliability Stress Flow



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)	406	0	0	None
FBGA (1.0-1.27)	199	0	0	None
FBGA (1.0-1.27, Pb-free)	177	0	0	None
FLIPCHIP CSP (Pb-Free)	303	0	0	None
PBGA (1.27)	90	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	60	0	0	None
PDIP (Pb-Free)	149	0	0	None
PLCC	90	0	0	None
PLCC (Pb-Free)	60	0	0	None
PQFP (Pb-free)	30	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	60	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	2721	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	577	0	0	None
QFN (Punch Type, Pb-Free)	209	0	0	None
QFN (Saw Type, Pb-free)	699	0	0	None
QSOP (Pb-Free)	116	0	0	None
SNC (Pb-Free)	250	0	0	None
SOIC (J-Lead, Pb-Free)	430	0	0	None
SOIC (Pb-Free)	570	0	0	None
SSOP	30	0	0	None
SSOP (Pb-Free)	1162	0	0	None
TQFP	30	0	0	None
TQFP (Pb-Free)	1186	0	0	None
TSOP (Pb-free)	479	0	0	None
TSOP I (Pb-Free)	148	0	0	None
TSOP II (Pb-Free)	823	0	0	None
TSSOP	60	0	0	None
TSSOP (Pb-Free)	268	0	0	None
VFBGA (0.75-0.8, 0.3mm)	90	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	769	0	0	None
Grand Total	12,241	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, Pb-free)	335	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	384	0	0	None
FBGA (1.0-1.27, Pb-free)	230	0	0	None
FLIPCHIP CSP (Pb-Free)	73	0	0	None
PDIP (Pb-Free)	84	0	0	None
PLCC	60	0	0	None
PLCC (Pb-Free)	30	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	60	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	806	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	57	0	0	None
QFN (Punch Type, Pb-Free)	88	0	0	None
QFN (Saw Type, Pb-free)	225	0	0	None
QSOP (Pb-Free)	56	0	0	None
SNC (Pb-Free)	59	0	0	None
SOIC (J-Lead, Pb-Free)	271	0	0	None
SOIC (Pb-Free)	377	0	0	None
SSOP	30	0	0	None
SSOP (Pb-Free)	507	0	0	None
TQFP (Pb-Free)	537	0	0	None
TSOP (Pb-free)	485	0	0	None
TSOP I (Pb-Free)	87	0	0	None
TSOP II (Pb-Free)	255	0	0	None
TSSOP	60	0	0	None
TSSOP (Pb-Free)	115	0	0	None
VFBGA (0.75-0.8, 0.3mm)	60	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	489	0	0	None
Grand Total	5820	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)	1,596	0	0	None
FBGA (1.0-1.27)	1,311	61	4.7	Excessive Die Attach epoxy fillet height/ Die Crack
FBGA (1.0-1.27, Pb-free)	804	0	0	None
FLIPCHIP CSP (Pb-Free)	1,134	0	0	None
PBGA (1.27)	120	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	120	0	0	None
PDIP (Pb-Free)	240	0	0	None
PLCC	120	0	0	None
PLCC (Pb-Free)	118	0	0	None
PQFP (Pb-free)	60	0	0	None
QFN (0.4mm, Saw Type, Pb-free)	30	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	122	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	10,298	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	686	0	0	None
QFN (Punch Type, Pb-Free)	294	0	0	None
QFN (Saw Type, Pb-free)	2,482	0	0	None
QSOP (Pb-Free)	178	0	0	None
SNC (Pb-Free)	279	0	0	None
SOIC (J-Lead, Pb-Free)	2,098	0	0	None
SOIC (Pb-Free)	1,289	0	0	None
SSOP	60	0	0	None
SSOP (Pb-Free)	2,426	0	0	None
TQFP	60	0	0	None
TQFP (Pb-Free)	2,129	0	0	None
TSOP (Pb-free)	732	0	0	None
TSOP I (Pb-Free)	510	0	0	None
TSOP II (Pb-Free)	1,888	0	0	None
TSSOP	118	0	0	None
TSSOP (Pb-Free)	786	0	0	None
VFBGA (0.75-0.8, 0.3mm)	90	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	1,717	0	0	None
Grand Total	33,895	61	0.18%	See above

Note: 1) CAR 201009018/201012011 – Implementation of New Fillet Height Measurement for Process Input and Output Control



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)	505	0	0	None
FBGA (1.0-1.27)	460	0	0	None
FBGA (1.0-1.27, Pb-free)	58	0	0	None
FLIPCHIP CSP (Pb-Free)	195	0	0	None
PBGA (1.27)	120	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	60	0	0	None
PDIP (Pb-Free)	240	0	0	None
PLCC	120	0	0	None
PLCC (Pb-Free)	120	0	0	None
PQFP (Pb-free)	57	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	116	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	1,200	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	522	0	0	None
QFN (Punch Type, Pb-Free)	294	0	0	None
QFN (Saw Type, Pb-free)	944	0	0	None
QSOP (Pb-Free)	175	0	0	None
SNC (Pb-Free)	220	0	0	None
SOIC (J-Lead, Pb-Free)	392	0	0	None
SOIC (Pb-Free)	982	0	0	None
SSOP	60	0	0	None
SSOP (Pb-Free)	630	0	0	None
TQFP	60	0	0	None
TQFP (Pb-Free)	908	0	0	None
TQFP (For L65 Data only)*	231	0	0	None
TSOP (Pb-free)	677	0	0	None
TSOP I (Pb-Free)	240	0	0	None
TSOP II (Pb-Free)	741	0	0	None
TSSOP	113	0	0	None
TSSOP (Pb-Free)	450	0	0	None
VFBGA (0.75-0.8, 0.3mm)	119	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	1,048	0	0	None
Grand Total	12,057	0	0.00%	None

* Data were generated by Cypress Foundry Supplier

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: 07/04/09
To: 07/04/2010

Summary Detail -- EFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
B53												
	DCD	MR093068	R1	CYRF6936-40LFXC	125	3.8	96	96	300	0		
	DCD	093405	R1-Split 1	CYRF6936B-40LTXC	150	3.8	48	48	217	0		
	DCD	093405	R1-Split 2	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	093405	R1-Split 3	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	093405	R1-Split 4	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	093405	R1-Split 5	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	093405	R1-Split 6	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	093405	R1-Split 7	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	093405	R1-Split 8	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	093405	R1-Split 9	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	093405	R1-Split 10	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	093405	R2-Split 1	CYRF6936B-40LTXC	150	3.8	48	48	116	0		
	DCD	093405	R2-Split 2	CYRF6936B-40LTXC	150	3.8	48	48	78	0		
	DCD	093405	R2-Split 3	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	093405	R2-Split 4	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	093405	R2-Split 5	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	093405	R2-Split 6	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	093405	R2-Split 7	CYRF6936B-40LTXC	150	3.8	48	48	202	0		



Summary for Technology: B53

18

records

Sum

B53

3380

0

LL65

MID	091706	R11A	7C15631KO-GBBCB	125	2.2	96	96	1213	0
MID	091706	R11A(1)	7C15631KO-GBBCB	125	2.05	96	96	1035	0
MID	091706	R12A	CY7C1563KV18-450BZC	125	2.05	96	96	758	0
MID	091706	R12A(1)	CY7C1563KV18-450BZC	125	2.05	96	96	580	0
MID	091706	R8	CY7C15631KV18-450BZC	125	2.2	96	96	2148	0
MID	091706	R8A(1)	CY7C15631KV18-450BZC	125	2.05	96	96	227	0
MID	092401	R1	CY7C1563KV18	125	1.5	96	96	2208	0
MID	093202	R1	CY7C15631KV18-450BZC	125	2.2	96	96	596	0
MID	093202	R2	CY7C15631KV18-450BZC	125	2.2	96	96	712	0
MID	093202	R3	CY7C15631KV18-450BZC	125	2.2	96	96	1795	0
MID	093306	R1	CY7C1512KV18-250BZC	125	2.05	96	96	1100	0
MID	093306	R10	7C1518KO-GBBCB	125	2.05	96	96	2126	0
MID	093306	R2	7C1570KO	125	2.05	96	96	1001	0
MID	093306	R3	CY7C15632KV18	125	2.05	96	96	1089	0
MID	093306	R4	CY7C1518KO	125	2.05	96	96	1097	0
MID	093306	R5	CY7C15632KV18	125	2.05	96	96	1099	0
MID	093306	R6B	CY7C1568KO	125	2.05	96	96	1085	0
MID	093306	R7A	CY7C1513KO	125	2.05	96	96	1094	0
MID	093306	R8C	CY7C1515KO	125	2.05	96	96	1393	0
MID	093306	R9	CY7C1518KO	125	2.05	96	96	2230	0
MID	100405	R1	CY7C15632KV18	125	1.45	96	96	1325	0

Summary for Technology: LL65P-18R

21

records

Sum

LL65

25911

0

C9

MID	093204	R1	7C1321NC-RZW	150	3.77	48	48	4695	0
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MID	093204	R2	7C1321NC-RZW	150	3.77	48	48	4708	1	093204-2E1	Particle defect (Metal 1 lines shorting)
MID	093204	R3	7C1321NC-RZW	150	3.77	48	48	4670	0		
MID	MR093071	R1	CY7C1041DV33-10ZSXI	125	3.7	96	96	5400	0		
MID	MR093071	R2	CY7C1041DV33-10ZSXI	125	2.7	96	96	5400	10	MR093071-2E1	Particle defect
MID	MR094038	R1	CY7C1021DV33-10ZSXI	150	3.77	48	48	5885	0		
MID	MR094038	R2	CY7C1041DV33-10ZSXI	150	3.77	48	48	3798	0		
MID	MR094038	R3	CY7C1041DV33-10ZSXI	150	3.77	48	48	1844	0		
MID	MR094038	R4	CY7C1041DV33-10ZSXI	150	3.77	48	48	3671	0		
MID	MR101066	R1	CY7C1018DV33-10VXIT	150	4.5	48	48	3562	0		
MID	MR101066	R1A	CY7C1018DV33-10VXIT	150	4.5	48	48	1250	0		
MID	MR101066	R2	CY7C1041DV33-10ZSXI	150	4.5	48	48	3921	0		
MID	MR101066	R3	CY7C1041DV33-10ZSXI	150	4.5	48	48	3925	0		

Summary for Technology: C9

13 records

Sum **C9** **52729** **11**

R8

MID	092506	R1	CY62167DV	125	2.4	96	96	1684	0		
MID	092506	R2	CY62167DV	125	2.4	96	96	3341	0		
MID	092506	R3	CY62167DV	125	2.4	96	96	5714	0		
MID	MR094058	R1	CY62157DV30LL-55ZSXI	125	2.4	96	96	300	0		
MID	MR101043	R1	CY62167DV30LL-55BVI	125	2.4	96	96	300	0		
MID	MR102074	R1	7G62162DK-**GBZIB	125	2.2	96	96	4998	0		

R8

Summary for Technology: R8

6 records

Sum **R8** **16337** **0**

S8

CCD	080902	R1B (Reg-On)	CY8C3866AXI-040ES2	150	2.07	48	48	51	0		
CCD	080902	R1B-Split 2	CY8C3866AXI-040ES2	150	2.07	48	48	278	0		
CCD	080902	R2 (Reg-On)	CY8C3866AXI-040ES2	150	2.07	48	48	47	0		

CCD	080902	R2-Split 2	CY8C3866AXI-040ES2	150	2.07	48	48	22	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	2.07	48	48	465	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	2.07	48	48	541	0
MID	082703	R3	7C1408B1C	150	3.3	12	12	324	0
MID	082703	R4	7C1408B1C	150	3.3	48	48	1233	0
MID	082704	R3B	7C1404E1CC-**RZWIB	150	3.3	48	48	50	0
MID	082704	R4	7C1404B1CC-**RZWCB	150	3.3	48	48	1136	0
MID	090604	R1	CY7C1401	150	3.3	48	48	1153	0
MID	090604	R1-Reg-On	CY7C1401	150	3.6	48	48	50	0
MID	090604	R3	CY14B101LA	150	3	48	48	688	0
CCD	090706	R1	CY8C204665-24LQXIES	150	2.1	48	48	1000	0
CCD	090706	R1-Reg-On	CY8C204665-24LQXIES	150	5	48	48	45	0
CCD	090706	R1-Reg-On	CY8C205665-24PVXIES	150	5.5	48	48	45	0
CCD	090706	R2	CY8C204665-24LQXIES	150	2.1	48	48	1000	0
CCD	090706	R3	CY8C204665-24LQXIES	150	2.1	48	48	1000	0
CCD	091801	R2B	CY8C20466-24LQXIES	150	2.1	48	48	750	0
DCD	094508	R1A (Reg-On)	CYONSTB20105-LBXC	125	3.8	96	96	15	0
DCD	094508	R1A-Split 1	CYONSTB20105-LBXC	125	3.8	96	96	166	0
DCD	094508	R1A-Split 2	CYONSTB20105-LBXC	125	3.8	96	96	10	0
DCD	094508	R1B	CYONSTB20105-LBXC	125	3.8	96	96	15	0
DCD	094508	R1B-Split 1	CYONSTB20105-LBXC	125	3.8	96	96	167	0
DCD	094508	R1B-Split 2	CYONSTB20105-LBXC	125	3.8	96	96	10	0
DCD	094508	R1C	CYONSTB20105-LBXC	125	3.8	96	96	15	0
DCD	094508	R1C-Split 1	CYONSTB20105-LBXC	125	3.8	96	96	167	0
DCD	094508	R1C-Split 2	CYONSTB20105-LBXC	125	3.8	96	96	10	0
MID	094701	R1	CY7C1401	150	3.6	48	48	50	0
MID	094701	R1	CY7C1401	150	3.3	48	48	1153	0
CCD	094703	R1	CY8C20466A-24LQXIES	150	5.25	60	60	1000	0

CCD	094703	R2	CY8C20466A-24LQXIES	150	2.1	48	48	990	0		
CCD	100102	R1-Split 1	CY8CTMA300EES-48LTXI	150	2.07	48	48	500	0		
CCD	100102	R1-Split 2	CY8CTMA300EES-48LTXI	150	2.07	48	48	500	0		
CCD	100102	R1-Split 3	CY8CTMA300EES-48LTXI	150	2.07	48	48	449	1	100102-1E1	No Visual Defect
CCD	100102	R1-Split 4	CY8CTMA300EES-48LTXI	150	2.07	48	48	50	0		
CCD	100102	R2D	CY8CTMA300DES-48LTXI	150	2.07	48	48	47	0		
CCD	100102	R5-Split 4	CY8CTMA300EES-48LTXI	150	2.07	48	48	150	0		
CCD	100102	R2D	CY8CTMA300DES-48LTXI	150	5.75	48	48	47	0		
CCD	100203	R2	7C1421B8CC-GBKIB	150	5.25	48	48	2163	0		
CCD	100402	R1-Split 1	CY8CTMA300EES-48LTXI	150	2.07	48	48	499	1	100402-1E1	No Visual Defect
CCD	100402	R1-Split 2	CY8CTMA300EES-48LTXI	150	2.07	48	48	498	0		
CCD	100402	R1-Split 3	CY8CTMA300EES-48LTXI	150	2.07	48	48	498	0		
CCD	100402	R2-Split 1	CY8CTMA300EES2-48LTXI	150	2.07	48	48	448	0		
CCD	100402	R2-Split 2	CY8CTMA300EES2-48LTXI	150	2.07	48	48	449	0		
CCD	100402	R2-Split 3	CY8CTMA300EES2-48LTXI	150	2.07	48	48	498	0		
CCD	100402	R2-Split 4	CY8CTMA300EES2-48LTXI	150	2.07	48	48	103	0		
MID	100407	R1-Split 1	CY14B101LA	150	3.3	48	48	1330	0		
MID	100407	R1-Split 2	CY14B101LA	150	3.3	48	48	1330	0		
MID	100407	R1-Split 3	CY14B101LA	150	3.3	48	48	1322	0		
MID	100407	R2-Split 1	CY14B101LA	150	3.3	48	48	1330	0		
MID	100407	R2-Split 2	CY14B101LA	150	3.3	48	48	1329	0		
MID	100407	R2-Split 3	CY14B101LA	150	3.3	48	48	1330	0		
MID	100407	R3-Split 1	CY14B101LA	150	3.3	48	48	2242	0		
MID	100407	R3-Split 2	CY14B101LA	150	3.3	48	48	354	1	(FA#S1009023 / 100407-EFR)	1-Diffusion Defect
MID	100407	R3-Split 3	CY14B101LA	150	3.3	48	48	1	0		
CCD	MR092077	R1	CY8CTMG200-32LQXIT	150	2.1	48	48	366	0		
CCD	MR094068	R1	CY8CTMG200-32LQXI	125	2.1	96	96	294	0		
CCD	MR102068	R1	7C1401B8CC-**RZWI	150	3.3	48	48	1505	0		



Summary for Technology: S8

59

records

Sum

S8

33278

3

C8

DCD	92015	R1-Split 1	CYWB0124AB-BVXI	125	3.8	120	120	626	0
DCD	92015	R1-Split 2	CYWB0124AB-BVXI	125	3.8	120	120	626	0
DCD	92015	R1-Split 3	CYWB0124AB-BVXI	125	3.8	96	96	463	0
DCD	92015	R2- Split 1	CYWB0124AB-BVXI	125	3.8	96	96	484	0
DCD	92015	R2- Split 2	CYWB0124AB-BVXI	125	3.8	96	96	626	0
DCD	92015	R2- Split 3	CYWB0124AB-BVXI	125	3.8	96	96	603	0
MID	92902	R1- Split 2	CY7C68320C	150	3.8	24	24	877	0
MID	92902	R1A- Split 1	CY7C68320C	150	3.8	24	24	170	0
MID	92902	R1B- Split 2	CY7C68320C	150	3.8	24	24	885	0
MID	92902	R1C - Split 1	CY7C68320C	150	3.8	24	24	170	0
MID	92902	R1C- Split 2	CY7C68320C	150	3.8	24	24	711	0
MID	92902	R2 - Split 1	CY7C68320C	150	3.8	24	24	402	0
MID	92902	R2- Split 2	CY7C68320C	150	3.8	24	24	476	0
MID	92902	R2A- Split 2	CY7C68320C	150	3.8	24	24	720	0
MID	92902	R2B- Split 2	CY7C68320C	150	3.8	24	24	842	0
MID	92902	R2B- Split 3	CY7C68320C	150	3.8	24	24	37	0
MID	92902	R2C- Split 2	CY7C68320C	150	3.8	24	24	489	0
MID	92902	R3- Split 2	CY7C68320C	150	3.8	24	24	966	0
MID	92902	R3A- Split 2	CY7C68320C	150	3.8	24	24	751	0
MID	92902	R3B- Split 2	CY7C68320C	150	3.8	24	24	660	0
MID	92902	R3B- Split 3	CY7C68320C	150	3.8	24	24	660	0
MID	92902	R3B- Split 4	CY7C68320C	150	3.8	24	24	197	0
DCD	MR092065	R1	CYWB0224ABS-BVXI	125	3.8	120	120	300	0
CBD	MR093063	R1	CY7C68013A-56PVXC	125	3.8	96	96	300	0
DCD	MR094073	R1	CY7C68053-56PVXI	150	3.8	60	60	1364	0



DCD	MR094073	R2	CY7C68053-56PVXI	150	3.8	48	48	1318	0
Summary for Technology: C8		26	records						
Sum							C8	15723	0
S4									
CCD	082007	R2	CY7C53120E4-40SXIES	125	3.8	96	96	999	0
MID	090404	R4- Split 1	CY8C20234-12LKXA	125	5.5	48	48	1400	0
MID	090404	R4- Split 2	CY8C20234-12LKXA	125	5.5	48	48	1399	0
MID	090404	R5-Split 2	CY8C20234-12LKXA	125	5.5	48	48	2718	0
CCD	090802	R1A	CY8C20634	125	5.5	96	96	778	0
CCD	090802	R2A	CY8C20634	125	5.5	96	96	762	0
MID	092201	R4-Split 1	CY8C20234-12LKXA	125	5.5	48	48	1400	0
MID	092201	R4-Split 2	CY8C20234-12LKXA	125	5.5	48	48	1399	0
MID	092201	R5- Split 2	CY8C20234-12LKXA	125	5.5	48	48	2718	0
MID	092201	R6(1)- Split 1	CY8C20234-12LKXA	150	5.5	60	60	288	0
MID	092201	R6(1)- Split 4	CY8C20234-12LKXA	150	5.5	60	60	4196	0
MID	092301	R4-Split 1	CY8C20234-12LKXA	125	5.5	48	48	1400	0
MID	092301	R4-Split 2	CY8C20234-12LKXA	125	5.5	48	48	1399	0
MID	092301	R5-Split 2	CY8C20234-12LKXA	125	5.5	48	48	2718	0
MID	092301	R6(1)-Split 1	CY8C20234-12LKXA	125	5.5	60	60	288	0
MID	092301	R6(1)-Split 2	CY8C20234-12LKXA	125	5.5	60	60	4196	0
MID	92701	R2	8A22345AK-**RASPEB	125	5.5	96	96	3664	0
MID	92701	R1	8A22345AK-**RASPEB	125	5.5	96	96	3709	0
MID	92701	R2	8A22345AK-**RASPEB	125	5.5	96	96	3664	0
MID	92701	R1	8A22345AK-**RASPEB	125	5.5	96	96	835	0
MID	92701	R1	8A22345AK-**RASPEB	125	5.5	96	96	2874	0
MID	93003	R1A	8C28433AC-**RASPI	125	5.5	48	48	573	0
MID	93003	R1B	8C28433AC-**RASPI	125	5.5	48	48	588	0
MID	93003	R1C	8C28433AC-**RASPI	125	5.5	48	48	566	0

MID	93807	R1	8A29666AC-**RSPEB	125	5.5	48	48	1048	0
MID	93807	R1	8A29666AC-**RSPEB	125	5.5	48	48	976	0
MID	93807	R1	8A29666AC-**RSPEB	125	5.5	48	48	1050	0
MID	93807	R2	8A29666AC-**RSPEB	125	5.5	48	48	875	0
MID	93807	R2	8A29666AC-**RSPEB	125	5.5	48	48	590	0
MID	93807	R1	8A29666AC-**RSPEB	125	5.5	48	48	450	0
MID	93807	R3-SPLIT (1,2) A	8A29666AC-**RSPEB	125	5.5	48	48	570	0
MID	93807	R3-SPLIT (1,2) B	8A29666AC-**RSPEB	125	5.5	48	48	570	0
MID	93807	R3-SPLIT (1,2) CA	8A29666AC-**RSPEB	125	5.5	48	48	62	0
MID	93807	R3-SPLIT (1,2) CB	8A29666AC-**RSPEB	125	5.5	48	48	418	0
MID	93807	R3-SPLIT 3	8A29666AC-**RSPEB	125	5.5	48	48	810	0
MID	93807	R3-SPLIT 4A	8A29666AC-**RSPEB	125	5.5	48	48	330	0
MID	93807	R3-SPLIT 4B	8A29666AC-**RSPEB	125	5.5	48	48	480	0
MID	93807	R3-SPLIT 5	8A29666AC-**RSPEB	125	5.5	48	48	810	0
MID	93807	R3-SPLIT 6	8A29666AC-**RSPEB	125	5.5	48	48	810	0
MID	93807	R3-SPLIT 7A	8A29666AC-**RSPEB	125	5.5	48	48	197	0
MID	092701	R1	CY8C22345-12PVXE	125	5.5	72	72	835	0
MID	092701	R1	CY8C22345-12PVXE	125	5.5	96	96	2874	0
MID	092701	R2	CY8C22345-12PVXE	125	5.5	72	72	3664	0
MID	092701	R3	CY8C22345-12PVXE	125	5.5	48	48	3782	0
CCD	092901	R1	CY8C205344-12PVXI	125	5.5	96	96	3276	0
CCD	092901	R2	CY8C205345-12PVXI	150	5.5	60	60	3019	0
CCD	093003	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	CY8CLE04D01-56LTXI	125	5.5	96	96	1610	0
CCD	MR092073	R1	CY8C21334-24PVXI	125	5.5	96	96	285	0
CCD	MR093048	R1	CY8C21534-24PVXI	5	5.5	96	96	259	0

	CCD	MR093064	R1	CY8C204344-12LQXI	125	5.5	96	96	299	0
	CCD	MR094048	R1	CY8C24533-24PVXI	125	5.5	110	110	299	0
	CCD	MR094063	R1	CY8C21534-24PVXA	125	5.5	48	48	297	0
	CCD	MR094069	R1	CY8C21534-12PVXET	125	5.5	48	48	195	0
	CCD	MR101052	R1	CY8C27243-24PVXIT	125	5.5	96	96	300	0
	CCD	MR101059	R1	CY8C20434-12LQXIT	125	5.5	96	96	298	0
Summary for Technology: S4			58	records						
Sum								S4AD	77596	0
R4	MID	091302	R2- Split 1	CY62256NLL-55SNXET	125	5.75	96	96	120	0
	MID	091302	R2- Split 2	CY62256NLL-55SNXET	125	5.75	96	96	2900	0
Summary for Technology: R4			2	records						
Sum								R4	3020	0
R5	MID	MR094065	R1	CY7C1399BN-12VXI	150	3.8	48	48	300	0
Summary for Technology: R5			1	records						
Sum									300	0
R7	MID	093307	R1	7A122001GC-**RZWEB	150	2.75	48	48	3367	0
	MID	093307	R2	7A122001GC-**RZWEB	150	2.75	48	48	3033	0
	MID	093307	R3	7A122001GC-**RZWEB	150	2.75	48	48	942	0
	MID	093307	R4	7A122001GC-**RZWEB	150	2.75	48	48	3346	0
	MID	101602	R1	7A1319GC-**TZWAB	150	2.75	48	48	2119	0
	MID	101602	R2	7A1319GC-**TZWAB	150	2.75	48	48	2878	0
	MID	101602	R3	7A1319GC-**TZWAB	150	2.75	48	48	2830	0
Summary for Technology: R7			7	records						
Sum								R7	18515	0
R95	MID	95101	R1	7C62187FC-**GBKIB	125	1.85	48	96	2715	0

MID	95101	R2	7C62187FC-**GBKIB	125	1.85	48	72	2733	0
MID	091602	R3	CY62187E	125	1.85	24	24	1411	0
MID	091602	R3	CY62187E	125	1.85	96	96	1403	0
MID	093904	R4	CY62187E	125	1.85	24	24	1411	0
MID	093904	R4	CY62187E	125	1.85	96	96	1403	0
MID	MR092067	R2	CY62157EV30LL-45ZSXI	125	1.85	48	48	499	0

Summary for Technology: R95

7 records

Sum R95 11575 0

R9

MID	MR092068	R1	CY7C1313TV18-250BZC	125	2.7	96	96	1922	1	MR092068-1E1	No Visual Defect
MID	MR092068	R2	CY7C1313TV18-250BZC	125	2.7	96	96	1669	0		
MID	MR092068	R3	CY7C1313TV18-250BZC	125	2.7	96	96	1348	0		
MID	MR093073	R2	7C1450XC-**RAZCB	150	2.25	48	48	2312	0		
MID	MR093073	R1	7C1370XC-**RAZIB	150	2.25	48	48	3026	0		
MID	MR102067	R1	7C1380XC-**RAZCB	150	2.25	48	48	2065	0		
MID	MR102067	R2	7C1380XC-**RAZCB	150	2.25	48	48	2077	0		
MID	MR102067	R3	7C1380XC-**RAZCB	150	2.25	48	48	2073	0		
MID	MR102067	R5	7C1380XC-**RAZCB	150	2.25	48	48	2072	0		
MID	MR102067	R6	7C1380XC-**RAZCB	150	2.25	48	48	98	0		
MID	MR102067	R7	7C1380XC-**RAZCB	150	2.25	48	48	2048	0		

Summary for Technology: R9

11 records

Sum R9 20710 1

0.25um

MID	MR093039	R1	STK14CA8-RF45	125	3.6	120	120	100	0		
CCD	MR092078	R1	STK14CA8-RF45	125	3.6	96	96	100	0		

Summary for Technology: 0.25um

2 records

Sum 0.25Um 200 0

Summary Detail -- LFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
B53												
	DCD	093405	R1	CYRF6936B-40LTXC	150	3.8	500	452	116	0		
	DCD	093405	R2	CYRF6936B-40LTXC	150	3.8	500	452	116	0		
	DCD	MR093068	R1	CYRF6936-40LFXC	125	3.8	168	72	300	0		
	DCD	RR093003	R1	CYP15G0401DXB-BGX	125	5.5	1000	832	22	0		
Summary for Technology: B53			4	records								
Sum								B53	554	0		
S4												
	CCD	082007	R2	CY7C53120E4-40SXIES	125	5.5	1000	832	30	0		
	CCD	082007	R2	CY7C53120E4-40SXIES	125	5.5	168	72	30	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	1000	832	60	0		
	CCD	093003	R1A	CY8C28433-24PVXIES	125	5.25	168	72	60	0		
	CCD	093003	R1B	CY8C28433-24PVXIES	125	5.25	1000	832	60	0		
	CCD	093003	R1B	CY8C28433-24PVXIES	125	5.25	168	72	60	0		
	CCD	093003	R1C	CY8C28433-24PVXIES	125	5.25	1000	832	60	0		
	CCD	093003	R1C	CY8C28433-24PVXIES	125	5.25	168	72	60	0		
	CCD	093807	R1	CY8C29666-12PVXE	125	5.5	1000	832	82	0		
	CCD	093807	R2	CY8C29666-12PVXE	125	5.5	1000	832	83	0		
	DCD	MR091064	R1	CY25100KSXCF	150	3.8	500	420	453	0		
	CCD	MR092046	R1	CY8C24533-24PVXI	125	5.5	1000	832	295	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	125	5.5	1000	832	285	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	125	5.5	168	72	285	0		
	CCD	MR093048	R1	CY8C21534-24PVXI	125	5.5	1000	832	259	0		

CCD	MR093048	R1	CY8C21534-24PVXI	125	5.5	168	72	259	0
CCD	MR093064	R1	CY8C204344-12LQXI	125	5.5	168	72	299	0
CCD	MR093064	R1	CY8C204344-12LQXI	125	5.5	1000	832	299	0
CCD	MR094048	R1	CY8C24533-24PVXI	125	5.5	192	96	299	0
CCD	MR094048	R1	CY8C24533-24PVXI	125	5.5	1000	808	285	0
CCD	MR094063	R1	CY8C21534-24PVXA	125	5.5	1000	832	6	0
CCD	MR094069	R1	CY8C21534-12PVXET	125	5.5	1000	832	195	0
CCD	MR101052	R1	CY8C27243-24PVXIT	125	5.5	168	72	298	0

Summary for Technology: S4AD

25 records

Sum S4 4342 0

C8

DCD	092015	R1	CYWB0124AB-BVXI	125	3.8	168	72	116	0
DCD	092015	R1	CYWB0124AB-BVXI	125	3.8	1048	880	116	0
MID	092902	R1	CY7C68320C	150	3.8	408	408	80	0
MID	092902	R2	CY7C68320C	150	3.8	408	408	80	0
MID	092902	R3	CY7C68320C	150	3.8	408	408	80	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	1000	832	300	0
CBD	MR093063	R1	CY7C68013A-56PVXC	125	3.8	168	72	300	0
DCD	MR094073	R2	CY7C68053-56PVXI	150	3.8	500	420	200	0
DCD	MR094073	R1	CY7C68053-56PVXI	150	1.8	500	420	200	0

Summary for Technology: C8

11 records

Sum C8 2069 0

R7

MID	093307	R3A	7A122001GC-**RZWEB	150	2.75	80	32	540	0
MID	093307	R3A	7A122001GC-**RZWEB	150	2.75	500	420	530	0
MID	101602	R1	7A1319GC-**TZWAB	150	2.75	408	408	125	0

MID	101602	R2	7A1319GC-**TZWAB	150	2.75	408	408	125	0
MID	101602	R3	7A1319GC-**TZWAB	150	2.75	408	408	125	0
Summary for Technology: R7		5	records						
Sum							R7	1445	0
R8									
MID	MR101043	R1	CY62167DV30LL-55BVI	125	2.4	168	72	299	0
MID	MR101043	R1	CY62167DV30LL-55BVI	125	2.4	1000	832	293	0
MID	MR094058	R1	CY62157DV30LL-55ZSXI	125	2.4	168	72	298	0
MID	MR094058	R1	CY62157DV30LL-55ZSXI	125	2.4	1000	832	295	0
MID	MR091063	R1	CY62157DV30LL-55ZSXI	125	2.4	1000	832	298	0
Summary for Technology: R8		5	records						
Sum							R8	1483	0
C9									
MID	MR092069	R1	CY7C1041DV33-10ZSXIT	150	3.77	80	32	500	0
MID	MR092069	R1	CY7C1041DV33-10ZSXIT	150	3.77	500	420	500	0
Summary for Technology: C9		2	records						
Sum							C9	1000	0
R5									
MID	MR094065	R1	CY7C1399BN-12VXI	150	3.8	80	32	300	0
MID	MR094065	R1	CY7C1399BN-12VXI	150	3.8	500	420	300	0
Summary for Technology: R5		2	records						
Sum							R5	600	0
S8									
CCD	080902	R1B	CY8C3866AXI-040ES2	150	2.07	128	80	125	0
CCD	080902	R1B	CY8C3866AXI-040ES2	150	2.07	500	420	116	0
CCD	080902	R2	CY8C3866AXI-040ES2	150	2.07	500	420	124	0
CCD	080902	R2	CY8C3866AXI-040ES2	150	2.07	80	32	125	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	2.07	500	420	125	0

CCD	080902	R3	CY8C3866AXI-040ES2	150	2.07	80	32	127	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	R3C	7C1404B6CC-**RZWCB	150	3.3	500	420	186	0
MID	082704	R4	7C1404B1CC-**RZWCB	150	3.3	500	420	119	0
MID	082704	R4	7C1404B1CC-**RZWCB	150	3.3	80	32	120	0
MID	090604	R1	CY7C1401	150	3.3	500	420	120	0
MID	090604	R1	CY7C1401	150	3.3	80	32	120	0
CCD	090706	R1	CY8C204665-24LQXIES	150	2.1	500	420	399	0
CCD	090706	R1	CY8C204665-24LQXIES	150	2.1	80	32	400	0
CCD	090706	R2	CY8C204665-24LQXIES	150	2.1	92	44	400	0
CCD	090706	R2(1)	CY8C204665-24LQXIES	150	2.1	500	420	444	0
CCD	090706	R3	CY8C204665-24LQXIES	150	2.1	500	420	400	0
CCD	090706	R3	CY8C204665-24LQXIES	150	2.1	80	32	400	0
DCD	094508	R1A-Split 1	CYONSTB20105-LBXC	125	3.8	168	72	85	0
DCD	094508	R1A-Split 2	CYONSTB20105-LBXC	125	3.8	168	72	10	0
DCD	094508	R1A-Split 1	CYONSTB20105-LBXC	125	3.8	1000	832	83	0
DCD	094508	R1A-Split 2	CYONSTB20105-LBXC	125	3.8	1000	832	10	0
DCD	094508	R1B-Split 1	CYONSTB20105-LBXC	125	3.8	168	72	85	0
DCD	094508	R1B-Split 2	CYONSTB20105-LBXC	125	3.8	168	72	10	0
DCD	094508	R1B-Split 1	CYONSTB20105-LBXC	125	3.8	1000	832	85	0
DCD	094508	R1B-Split 2	CYONSTB20105-LBXC	125	3.8	1000	832	10	0
DCD	094508	R1C-Split 1	CYONSTB20105-LBXC	125	3.8	168	72	85	0
DCD	094508	R1C-Split 2	CYONSTB20105-LBXC	125	3.8	168	72	10	0
DCD	094508	R1C-Split 1	CYONSTB20105-LBXC	125	3.8	1000	832	85	0
DCD	094508	R1C-Split 2	CYONSTB20105-LBXC	125	3.8	1000	832	10	0

MID	094701	R1	CY7C1401	150	3.3	80	32	120	0
MID	094701	R1	CY7C1401	150	3.3	500	420	120	0
CCD	100102	R2B	CY8CTMA300DES-48LTXI	150	5.75	500	420	120	0
CCD	100102	R2B	CY8CTMA300DES-48LTXI	150	5.75	80	32	120	0
CCD	100102	R3	CY8CTMA300DES-48LTXI	150	5.75	500	420	120	0
CCD	100102	R3	CY8CTMA300DES-48LTXI	150	5.75	80	32	120	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
CCD	MR094068	R1	CY8CTMG200-32LQXI	125	2.1	192	96	254	0
CCD	MR094068	R1	CY8CTMG200-32LQXI	125	2.1	216	120	40	0
CCD	MR094068	R1	CY8CTMG200-32LQXI	125	2.1	1024	928	294	0

Summary for Technology: S8

44 records

Sum S8 7171 0

R42

MID	091302	R2	CY62256NLL-55SNXET	150	5.75	500	420	118	0
MID	91302	R2	CY62256NLL-55SNXET	150	5.75	80	32	118	0

Summary for Technology: R42NHA

2 records

Sum R42 236 0

LL65

MID	093202	R3	CY7C15631KV18-450BZC	125	2.2	500	420	184	0
MID	093202	R3	CY7C15631KV18-450BZC	125	2.2	168	72	185	0
MID	093202	R1	CY7C15631KV18-450BZC	125	2.2	168	72	190	0
MID	091706	R4	CY7C1512KV18-*BZCES	150	2.2	500	420	178	0
MID	093306	R2	7C1570KO	125	2.05	168	72	188	0
MID	093306	R2	7C1570KO	125	2.05	1000	832	188	0
MID	093306	R3	CY7C15632KV18	125	2.05	168	72	188	0
MID	093306	R3	CY7C15632KV18	125	2.05	1000	832	188	0
MID	093306	R4	CY7C1518KO	125	2.05	168	72	188	0

MID	093306	R4	CY7C1518KO	125	2.05	1000	832	188	0
MID	093306	R5	CY7C15632KV18	125	2.05	168	72	188	0
MID	093306	R5	CY7C15632KV18	125	2.05	1000	832	188	0
MID	093306	R7A	CY7C1513KO	125	2.05	168	72	188	0
MID	093306	R7A	CY7C1513KO	125	2.05	1000	832	188	0

Summary for Technology: LL65P-18R 14 records

Sum 2617 0

R95

MPD	093904	R4	CY62187E	125	1.85	168	72	400	0
MID	091602	R3	CY62187E	125	1.85	168	72	400	0
MID	MR092047	R1	7A62157FC-**RZWEB	125	1.85	1000	832	77	0
MID	MR092047	R2	7A62157FC-**RZWEB	125	1.85	1000	832	79	0
MID	MR092047	R3	7A62157FC-**RZWEB	125	1.85	1000	832	80	0
MID	MR092067	R2	CY62157EV30LL-45ZSXI	125	1.85	1000	832	496	0

Summary for Technology: R95 6 records

Sum R95 1532 0

0.25um

MID	MR092078	R1	STK14CA8-RF45	125	3.6	168	72	100	0
MID	MR092078	R1	STK14CA8-RF45	125	3.6	1000	1000	100	0
MID	MR093039	R1	STK14CA8-RF45	125	3.6	168	72	100	0
MID	MR093039	R1	STK14CA8-RF45	125	3.6	1000	1000	100	0

Summary for Technology: 0.25um 4 records

Sum 0.25um 400 0

Summary Detail -- DRET Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
S4												
	CCD	090703	R1	CY8C27443-24PVXIES	150	0	1024	524	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	093003	R1A	CY8C28433-24PVXIES	150	0	500	500	77	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	150	0	1000	500	74	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	175	0	288	288	77	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	175	0	408	120	77	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	150	0	500	500	74	0		
	CCD	MR093048	R1	CY8C21534-24PVXI	150	0	1000	500	63	0		
	CCD	MR093048	R1	CY8C21534-24PVXI	175	0	288	288	69	0		
	CCD	MR093048	R1	CY8C21534-24PVXI	175	0	408	120	69	0		
	CCD	MR093048	R1	CY8C21534-24PVXI	150	0	500	500	63	0		
	CCD	MR093048	R1A	CY8C21534-24PVXI	150	0	1000	500	67	0		
	CCD	MR093048	R1A	CY8C21534-24PVXI	150	0	500	500	67	0		
	CCD	MR093064	R1	CY8C204344-12LQXI	175	0	288	288	78	0		
	CCD	MR093064	R1	CY8C204344-12LQXI	150	0	500	500	80	0		
	CCD	MR093064	R1	CY8C204344-12LQXI	175	0	408	120	75	0		
	CCD	MR093064	R1	CY8C204344-12LQXI	150	0	1000	500	79	0		
	CCD	MR094048	R1	CY8C24533-24PVXI	175	0	288	288	80	0		
	CCD	MR094048	R1	CY8C24533-24PVXI	175	0	408	120	80	0		
	CCD	MR094048	R1	CY8C24533-24PVXI	150	0	500	500	80	0		
	CCD	MR094048	R1	CY8C24533-24PVXI	150	0	1000	500	80	0		

CCD	MR094063	R1	CY8C21534-24PVXA	150	0	500	500	77	0
CCD	MR094063	R1	CY8C21534-24PVXA	150	0	1000	500	77	0
CCD	MR101052	R1	CY8C27243-24PVXIT	175	0	288	288	80	0
CCD	MR101052	R1	CY8C27243-24PVXIT	175	0	408	120	80	0
CCD	MR101052	R1	CY8C27243-24PVXIT	150	0	500	500	80	0
CCD	MR101052	R1	CY8C27243-24PVXIT	150	0	1000	500	80	0
CCD	MR101059	R1	CY8C20434-12LQXIT	175	0	288	288	80	0
CCD	MR101059	R1	CY8C20434-12LQXIT	175	0	408	120	80	0
CCD	MR101059	R1	CY8C20434-12LQXIT	150	0	500	500	80	0
CCD	MR101059	R1	CY8C20434-12LQXIT	150	0	1000	500	80	0

Summary for Technology: S4AD

34 records

Sum S4 2600 0

S8

CCD	080902	R1A	CY8C3866AXI-040ES2	150	0	1000	500	77	0
CCD	080902	R1A	CY8C3866AXI-040ES2	150	0	500	500	77	0
CCD	080902	R2	CY8C3866AXI-040ES2	150	0	1000	500	80	0
CCD	080902	R2	CY8C3866AXI-040ES2	150	0	500	500	80	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	0	1000	500	77	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	0	500	500	77	0
MID	082703	R4	7C1408B1C	150	0	1000	500	77	0
MID	082703	R4	7C1408B1C	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
CCD	090706	R1	CY8C204665-24LQXIES	150	0	1000	500	77	0
CCD	090706	R1	CY8C204665-24LQXIES	150	0	1446	446	77	0
CCD	090706	R1	CY8C204665-24LQXIES	150	0	500	500	77	0
CCD	090706	R2	CY8C204665-24LQXIES	150	0	1000	500	80	0

CCD	090706	R2	CY8C204665-24LQXIES	150	0	1500	500	80	0
CCD	090706	R2	CY8C204665-24LQXIES	150	0	500	500	80	0
CCD	090706	R3	CY8C204665-24LQXIES	150	0	1000	500	80	0
CCD	090706	R3	CY8C204665-24LQXIES	150	0	1500	500	80	0
CCD	090706	R3	CY8C204665-24LQXIES	150	0	500	500	80	0
DCD	094508	R1A	CYONSTB20105-LBXC	150	0	1024	524	25	0
DCD	094508	R1A	CYONSTB20105-LBXC	150	0	1500	500	24	0
DCD	094508	R1A	CYONSTB20105-LBXC	150	0	600	600	25	0
DCD	094508	R1B	CYONSTB20105-LBXC	150	0	1024	1000	26	0
DCD	094508	R1B	CYONSTB20105-LBXC	150	0	1500	500	26	0
DCD	094508	R1B	CYONSTB20105-LBXC	150	0	600	600	26	0
DCD	094508	R1C	CYONSTB20105-LBXC	150	0	1024	524	25	0
DCD	094508	R1C	CYONSTB20105-LBXC	150	0	1500	500	25	0
DCD	094508	R1C	CYONSTB20105-LBXC	150	0	600	600	26	0
MID	094701	R1	CY7C1401	150	0	500	500	80	0
MID	094701	R1	CY7C1401	150	0	1000	500	79	0
MID	094701	R1	CY7C1401	150	0	1500	500	79	0
CCD	094703	R1	CY8C20466A-24LQXIES	150	0	1000	500	80	0
CCD	094703	R1	CY8C20466A-24LQXIES	150	0	1500	500	80	0
CCD	094703	R1	CY8C20466A-24LQXIES	150	0	500	500	80	0
CCD	094703	R2	CY8C20466A-24LQXIES	150	0	1000	500	80	0
CCD	094703	R2	CY8C20466A-24LQXIES	150	0	1500	500	80	0
CCD	094703	R2	CY8C20466A-24LQXIES	150	0	500	500	80	0
CCD	100102	R2C	CY8CTMA300DES-48LTXI	150	0	1000	500	77	0
CCD	100102	R2C	CY8CTMA300DES-48LTXI	150	0	524	524	77	0
CCD	MR093069	R1	CY8C20546-24PVXI	175	0	288	288	80	0
CCD	MR093069	R1	CY8C20546-24PVXI	175	0	408	120	80	0
CCD	MR093069	R1	CY8C20546-24PVXI	150	0	500	500	79	0

CCD	MR093069	R1	CY8C20546-24PVXI	150	0	1000	500	79	0
CCD	MR094068	R1	CY8CTMG200-32LQXI	175	0	288	288	80	0
CCD	MR094068	R1	CY8CTMG200-32LQXI	175	0	408	120	80	0
CCD	MR094068	R1	CY8CTMG200-32LQXI	150	0	500	500	80	0
CCD	MR094068	R1	CY8CTMG200-32LQXI	150	0	1000	500	80	0
CCD	RR094002	R1	CY8C20466-24LQXI	150	0	168	168	209	0

Summary for Technology: S8

49 records

Sum S8 3518 0

0.25um

MID	MR092078	R1	STK14CA8-RF45	150	0	500	500	80	0
MID	MR092078	R1	STK14CA8-RF45	150	0	1000	500	80	0
MID	MR093039	R1	STK14CA8-RF45	150	0	500	500	80	0
MID	MR093039	R1	STK14CA8-RF45	150	0	1000	500	80	0

Summary for Technology: 0.25um

4 records

Sum 0.25um 320 0



FROM: 7/4/2009

TO: 07/04/2010

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, Pb-free)											
BK48DLALL	G	093904	R1	C Y62187E	130	3.6	264	76	0		
BK48DLALL	G	093904	R2	CY62187E	150	3.6	128	75	0		
BK48JAAALL	G	094304	R2	CY7C1071DV33	130	3.65	264	77	0		
BK48JAAALL	G	095301	R2	CY7C1071DV33	130	3.65	264	77	0		
BK48DJALL	G	MR093034	R1A	CY62177DV30LL-55BAXI	110	3.6	128	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)			5	records							
Sum								335	0		
FBGA (1.0-1.27)											
BB165BUALE	G	093306	R1	CY7C1512KV18-250BZC	110	2.05	264	78	0		
BB165BUALE	G	093306	R1	CY7C1512KV18-250BZC	110	2.05	528	77	0		
BB165BWALE	G	093306	R2	7C1570KO	110	2.05	264	76	0		
BB165BWALE	G	093306	R2	7C1570KO	110	2.05	528	76	0		
BB165GAALE	RA	093306	R8A	7C1543KO-RABBCB	110	2.05	264	77	0		
Summary for Package Family: FBGA (1.0-1.27)			5	records							
Sum								384	0		

FBGA (1.0-1.27, Pb-free)

BW165GAALL	RA	094002	R1	CY7C1512KO	110	2.05	264	76	0
BW165RBALL	RA	093306	R4C	7C11701KO-RABWCB	110	2.05	264	77	0
BW165RBALL	RA	093306	R4C	7C11701KO-RABWCB	110	2.05	528	77	0

Summary for Package Family: FBGA (1.0-1.27, Pb-free) 3 records

Sum 230 0

FLIPCHIP CSP (Pb-Free)

FN30A	AU	090802	R1	CY8C20634-12FDXIT	130	5.25	96	73	0
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Summary for Package Family: FLIPCHIP CSP (Pb-Free) 1 records

Sum 73 0

PDIP (Pb-Free)

PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	130	5.5	128	25	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	130	5.5	128	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	130	5.5	128	29	0

Summary for Package Family: PDIP (Pb-Free) 3 records

Sum 84 0

PLCC

J28SEGAGB	M	MR101008	R1	CY7B923-JC	130	5.5	128	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	130	3.6	128	30	0

Summary for Package Family: PLCC 2 records

Sum 60 0

PLCC (Pb-Free)

JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	130	5.5	128	30	0
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Summary for Package Family: PLCC (Pb-Free) 1 records

Sum 30 0

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



LK32AABAGL	L	MR093051	R1A	CY8C20434-12LKXI	130	5.25	128	30	0
LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	130	5.25	128	30	0
Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)			2	records					
Sum								60	0

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

LQ32EPDAGL	RA	090706	R1(2)	CY8C204665-24LQXIES	130	5.25	128	20	0
LQ32EPDAGL	RA	090706	R2(1)	CY8C204665-24LQXIES	130	5.25	128	39	0
LQ32EPDAGL	RA	090706	R4A	CY8C20466A-24LQXIES	130	5.25	128	80	0
LQ32EPDAGL	RA	090706	R4B	CY8C20466A-24LQXIES	130	5.25	128	80	0
LQ32EPDAGL	RA	090706	R4C	CY8C20466A-24LQXIES	130	5.25	128	80	0
LQ24ADAAGL	CA	MR093018	R1A	CY8CTST200-24LQXIT	130	5.25	128	30	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
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	130	5.25	128	26	0
LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	130	5.25	128	28	0
LQ32AFPDGL	RA	MR094027	R1A	CY8C20434-12LQXI	130	5.25	128	30	0
LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	130	5.25	128	28	0
LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	130	5.25	128	24	0
LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	130	5.25	128	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	130	5.25	128	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	130	5.25	128	30	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	130	5.25	128	30	0
LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	130	5.25	128	29	0
LQ24ADAAGL	CA	NR093002	R1	CY8CTST200-24LQXIT	130	5.25	128	25	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	130	5.25	128	30	0
LQ24AAAAAL	RA	NR093010	R1	CY8CTST200-24LQXIT	130	5.25	128	30	0



LQ24AAAAAL	RA	NR093010	R14	CP7126ATT	130	5.25	128	26	0
LQ24AAAAAL	RA	NR093010	R2	CY8C20346-24LQXIT	130	5.25	128	30	0

Summary for Package Family: QFN (0.6mm, Saw Type, Pb-Free) 23 records

Sum 806 0

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

LG16AAAAAL	MB	MR092053	R1	CY8C20180-LDX2I	130	5.25	128	27	0
LG16AAAAAL	M	MR094028	R1A	CP7270AT	130	5.25	128	30	0

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

Sum 57 0

QFN (Punch Type, Pb-Free)

LY32AAAGR	L	MR093017	R1	CP6759AMT	130	5.25	128	30	0
LY40ABGAGL	L	MR094051	R1	CYRF6936B-40LFXC	130	3.63	128	29	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	130	5.25	128	29	0

Summary for Package Family: QFN (Punch Type, Pb-Free) 3 records

Sum 88 0

QFN (Saw Type, Pb-free)

LT48BAAAAAN	MB	100102	R1	CY8CTMA300EES-48LTXI	130	5.5	128	80	0
LT32BAAGGL	M	MR092051	R1	CG6644FA	130	5.25	128	27	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	130	5.25	128	30	0
LT32BAABGL	RA	MR101034	R1	CP6688DMT	130	5.25	128	30	0
LT32BAAAGL	CA	MR101041	R1	CG7032AA	130	5.25	128	30	0
LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	130	5.25	128	28	0

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

Sum 225 0

QSOP (Pb-Free)



SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	130	5.25	128	30	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	130	5.5	128	26	0
Summary for Package Family: QSOP (Pb-Free)			2	records					
Sum								56	0
SNC (Pb-Free)									
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	130	5.5	96	30	0
SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	130	5.5	96	29	0
Summary for Package Family: SNC (Pb-Free)			2	records					
Sum								59	0
SOIC (J-Lead, Pb-Free)									
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	130	5.5	128	75	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	130	5.5	128	80	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
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	130	3.65	128	29	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	130	5.55	128	30	0
Summary for Package Family: SOIC (J-Lead, Pb-Free)			6	records					
Sum								271	0
SOIC (Pb-Free)									
SZ1615FAL	T	MR092070	R4	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
SZ815DAGN	M	MR093056	R1	CY2303SXCT	130	3.63	128	30	0
SZ1615KDGN	RA	MR094006	R1	CY2308SXC-1T	130	3.8	128	29	0
SZ32457BLN	R	MR094007	R1	CY62128EV30LL-45SXI	130	5.5	128	29	0
SZ1615DGN	M	MR094040	R1	CG7192AM	130	5.25	128	29	0

SZ324517BL	R	MR101019	R1	CG6727AMT	130	3.6	128	30	0
SZ1615KBGN	RA	MR101022	R1	CY2308SXI-2	130	3.8	128	30	0
SZ24315BGN	RA	MR101023	R1	CY7C63743C-SXC	130	5.5	128	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	130	5.25	128	30	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	130	5.5	128	30	0

Summary for Package Family: SOIC (Pb-Free)

13 records

Sum 377 0

SSOP

O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	130	3.63	128	30	0
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Summary for Package Family: SSOP

1 records

Sum 30 0

SSOP (Pb-Free)

SP282ABAGN	RA	092701	R1	CY8C22345-12PVXE	130	5.25	96	80	0
SP282ABAGN	RA	092701	R2	CY8C22345-12PVXE	130	5.25	96	80	0
SP282ABAGN	RA	092701	R3	CY8C22345-12PVXE	130	5.25	96	80	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
SP2814GAL	T	MR093027	R1	CS6835AT	130	5.25	128	30	0
SP2814HAL	M	MR093052	R1	CS6835AT	130	5.25	128	29	0
SP282ABAGN	RA	MR094029	R1	8C215345AK-**RASPI	130	5.25	128	30	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	130	5.25	96	29	0
SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	130	5.25	128	30	0
SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	130	5.25	128	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	130	3.63	128	30	0

Summary for Package Family: SSOP (Pb-Free)

12 records

Sum 507 0

TQFP (Pb-Free)

AZ100SFBAL	R	080902	R1A	CY8C3866AXI-040ES2	130	3.63	128	77	0
AZ100SFBAL	RA	080902	R2	CY8C3866AXI-040ES2	130	5.25	128	75	0
AZ100RUBLN	R	092902	R1	CY7C68320C	130	3.63	96	80	0
AZ100RULN	R	092902	R2	CY7C68320C	130	3.63	96	80	0
AZ100RULN	R	092902	R3	CY7C68320C	130	3.63	96	80	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
AZ100RUBLN	R	MR094053	R1	CY7C1347G-133AXC	130	3.63	128	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	130	5	128	30	0
Summary for Package Family: TQFP (Pb-Free)			10	records					

Sum **537** **0**

TSOP (Pb-free)

ZT28R2BBLN	R	091302	R2A	CY62256VNLL	130	5.5	128	80	0
ZT28R2BBLN	R	091302	R2A	CY62256VNLL	130	5.5	256	79	0
ZT28R4BGL	R	MR092063	R1A	CY7C1399BN-12ZXCT	130	3.63	128	30	0
ZT32RABALL	T	MR092070	R5	CY62128BNLL-55ZXIT	130	5.5	264	29	0
ZT48AKAALL	T	MR092070	R6A	7C62167FC-***TZTIB	130	5.5	264	28	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
ZT28R4BGL	R	MR093043	R1	CY7C1399BN-12ZXCT	130	3.63	128	30	0
ZT32RAEDLN	RA	MR094004	R1	CY62128ELL-45ZXIT	130	3.6	128	30	0
ZT28R2BBLN	R	MR094026	R1A	CY62256NLL-55ZXI	130	5.5	128	30	0
ZT32RABALL	T	MR094044	R1	CY62128BNLL-55ZXI	110	5.5	264	30	0
ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	130	3.6	128	30	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	130	3.6	128	30	0

Summary for Package Family: TSOP (Pb-free) **13** **records**

Sum **485** **0**

TSOP I (Pb-Free)

ZB32RHBALN	R	MR093065	R1	CY62128EV30LL-45ZAXIT	130	3.6	128	30	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	130	3.6	128	28	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	110	3.6	264	29	0

Summary for Package Family: TSOP I (Pb-Free) **3** **records**

Sum **87** **0**

TSOP II (Pb-Free)

ZW444ZALL	G	082703	R3	C1408B8BC-GZWIB	130	3.3	128	45	0
ZW444RAGN	R	MR093015	R1	CY62137VNL-70ZSXAT	130	3.6	96	30	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	110	3.6	128	30	0
ZW324GALL	T	MR094045	R1	CY7C1019DV33-10ZSXI	110	3.63	264	30	0
ZW444YBLL	R	MR094059	R1	CY7C1041BNL-15ZXC	130	5.5	128	30	0
ZW444AHLL	R	MR101038	R1	CY62126EV30LL-55ZSXE	130	5.25	96	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	130	3.6	128	30	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	130	3.65	128	30	0

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

Sum **255** **0**

TSSOP

Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	130	3.63	128	30	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	130	3.8	128	30	0

Summary for Package Family: TSSOP **2** **records**

Sum **60** **0**

TSSOP (Pb-Free)

ZZ0812BGL	T	MR092070	R3	CY24905ZXCT	130	3.63	128	25	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	130	2.8	128	30	0
ZZ1620GBAN	RA	MR101009	R1	CY2309ZXC-1HT	130	3.8	128	30	0

ZZ1620GBAN	RA	MR102001	R1	CY2309ZXC-1HT	130	3.8	128	30	0
Summary for Package Family: TSSOP (Pb-Free)			4	records					
Sum								115	0
VFBGA (0.75-0.8, 0.3mm)									
BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	110	3.6	264	30	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	110	3.63	264	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			2	records					
Sum								60	0
VFBGA (0.75-0.8, 0.3mm, Pb-Free)									
BZ48DAGLL	RA	MR092016	R1	CY62137FV30LL-45BVXIT	110	3.6	264	24	0
BZ48CHAALL	G	MR092031	R1	CY62126EV30LL-55BVXE	110	3.6	264	25	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	130	3.63	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
BZ48ABCALL	AT	MR093070	R1	CG6851AM	110	3.6	264	30	0
BZ100DGALL	RA	MR094011	R1	CYWB0120AB-BVXIT	110	3.63	264	28	0
BZ48CRALL	G	MR094024	R1	CY62167EV30LL-45BVXI	110	3.6	264	30	0
BZ48DAGLL	RA	MR094025	R1	CY62137FV30LL-45BVXIT	110	3.6	128	30	0
BZ48ABCALL	AT	MR094054	R1	CY62126EV30LL-45BVXI	110	3.6	264	30	0
BZ48ATALL	RA	MR094071	R1	CY62157DV30LL-55BVXI	110	3.6	264	30	0
BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	110	3.6	264	30	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	110	3.6	264	30	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	110	3.6	264	30	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	110	3.6	128	27	0
BZ100DGALL	RA	MR102012	R1	CYWB0120AB-BVXIT	110	1.98	264	27	0
BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	110	3.63	264	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)			17	records					



Sum

489 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)											
BK48DLALL	G	093904	R1	C Y62187E	150	0	500	77	0		
BK48DLALL	G	093904	R1	C Y62187E	150	0	1000	77	0		
BK48JAAALL	G	094304	R1	7C1071NC-**-**GBKIB	150	0	500	77	0		
BK48JAAALL	G	094304	R1	7C1071NC-**-**GBKIB	150	0	1000	77	0		
BK48JAAALL	G	094304	R1	7C1071NC-**-**GBKIB	150	0	1500	77	0		
BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	150	0	500	30	0		
BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	150	0	1000	30	0		
BK48DJALL	G	MR093034	R1	CY62177DV30LL-55BAXI	150	0	500	30	0		
BK48DJALL	G	MR093034	R1	CY62177DV30LL-55BAXI	150	0	1000	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)			9	records							
Sum								505	0		
FBGA (1.0-1.27)											
BB165BUALE	G	093202	R3	CY7C15631KV18-450BZC	150	0	500	80	0		
BB165BUALE	G	093202	R3	CY7C15631KV18-450BZC	150	0	1000	80	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		
BB165AVLE	RA	MR093067	R1	CY7C1313TV18-250BZC	150	0	500	15	0		
BB165AVLE	RA	MR093067	R1	CY7C1313TV18-250BZC	150	0	1000	15	0		
BB165AVLE	RA	MR101027	R1	CY7C1305TV25-167BZC	150	0	500	30	0		
BB165AVLE	RA	MR101027	R1	CY7C1305TV25-167BZC	150	0	1000	30	0		

BB165ALLE	G	MR101057	R1	CY7C1312CV18-250BZC	150	0	500	30	0
BB165ALLE	G	MR101057	R1	CY7C1312CV18-250BZC	150	0	1000	30	0
BB165AVLE	RA	MR102010	R1	CY7C1313TV18-250BZC	150	0	500	30	0
BB165AVLE	RA	MR102010	R1	CY7C1313TV18-250BZC	150	0	1000	30	0
Summary for Package Family: FBGA (1.0-1.27)			13	records					
Sum								460	0
FBGA (1.0-1.27, Pb-free)									
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)			2	records					
Sum								58	0
FLIPCHIP CSP (Pb-Free)									
FN49ABAAAL	AU	100302	R1	CY8CTMA300EES-49FNXI	150	0	500	99	0
FN49ABAAAL	AU	100302	R1	CY8CTMA300EES-49FNXI	150	0	1000	96	0
Summary for Package Family: FLIPCHIP CSP (Pb-Free)			2	records					
Sum								195	0
PBGA (1.27)									
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	150	0	500	30	0
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	150	0	1000	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	150	0	500	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	150	0	1000	30	0
Summary for Package Family: PBGA (1.27)			4	records					
Sum								120	0
PBGA (Cavity/Heat Sink, Pb-free)									
BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGXI	150	0	500	30	0
BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGXI	150	0	1000	30	0
Summary for Package Family: PBGA (Cavity/Heat Sink, Pb-free)			2	records					

Sum **60** **0**

PDIP (Pb-Free)

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
PZ243AAAGN	X	MR101042	R1	CY7C63743C-PXC	150	0	500	30	0
PZ243AAAGN	X	MR101042	R1	CY7C63743C-PXC	150	0	1000	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	150	0	500	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	150	0	1000	30	0

Summary for Package Family: PDIP (Pb-Free) **8** **records**

Sum **240** **0**

PLCC

J28SEGAGB	M	MR101008	R1	CY7B923-JC	150	0	500	30	0
J28SEGAGB	M	MR101008	R1	CY7B923-JC	150	0	1000	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	150	0	500	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	150	0	1000	30	0

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

Sum **120** **0**

PLCC (Pb-Free)

JZ32RBGAN	M	MR093054	R1	CY7C421-20JXC	150	0	500	30	0
JZ32RBGAN	M	MR093054	R1	CY7C421-20JXC	150	0	1000	30	0
JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	150	0	500	30	0
JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	150	0	1000	30	0

Summary for Package Family: PLCC (Pb-Free) **4** **records**

Sum **120** **0**

PQFP (Pb-free)

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)			2	records					
Sum								57	0
QFN (0.6mm, Punch Type, Pb-Free)									
LK32AABAGL	L	MR093051	R1	CG7047AA	150	0	500	30	0
LK32AABAGL	L	MR093051	R1	CG7047AA	150	0	1000	26	0
LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	150	0	500	30	0
LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	150	0	1000	30	0
Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)			4	records					
Sum								116	0
QFN (0.6mm, Saw Type, Pb-Free)									
LQ24ADAAGL	CA	MR093018	R1	CY8CTST200-24LQXIT	150	0	500	27	0
LQ24ADAAGL	CA	MR093018	R1	CY8CTST200-24LQXIT	150	0	1000	27	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
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	150	0	500	30	0
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	150	0	1000	30	0
LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	150	0	500	30	0
LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	150	0	1000	30	0
LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	150	0	500	30	0
LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	150	0	1000	30	0
LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	150	0	500	30	0
LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	150	0	1000	30	0

LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	150	0	500	30	0
LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	150	0	1000	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	150	0	500	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	150	0	1000	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	150	0	500	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	150	0	1000	30	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	150	0	500	30	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	150	0	1000	30	0
LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	150	0	500	30	0
LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	150	0	1000	30	0
LQ24ADAAGL	CA	NR093002	R1	CY8CTST200-24LQXIT	150	0	500	77	0
LQ24ADAAGL	CA	NR093002	R1	CY8CTST200-24LQXIT	150	0	1000	77	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	150	0	500	77	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	150	0	1000	77	0
LQ24AAAAAL	RA	NR093010	R1	CY8CTST200-24LQXIT	150	0	500	30	0
LQ24AAAAAL	RA	NR093010	R1	CY8CTST200-24LQXIT	150	0	1000	30	0
LQ24AAAAAL	RA	NR093010	R2	CY8C20346-24LQXIT	150	0	500	29	0
LQ24AAAAAL	RA	NR093010	R2	CY8C20346-24LQXIT	150	0	1000	29	0
LQ24AAAAAL	RA	NR093010	R3	CY8CTST200-24LQXIT	150	0	500	30	0
LQ24AAAAAL	RA	NR093010	R3	CY8CTST200-24LQXIT	150	0	1000	30	0

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

Sum 1200 0

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

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

LG16AAAAL	MB	MR092053	R1	CY8C20180-LDX2I	150	0	1000	30	0
LG16AAAAL	M	MR093061	R1	CY8C20224-12LKXI	150	0	500	30	0
LG16AAAAL	M	MR093061	R1	CY8C20224-12LKXI	150	0	1000	30	0
LG16AAAAL	M	MR094028	R1	CG7216AM	150	0	500	30	0
LG16AAAAL	M	MR094028	R1	CG7216AM	150	0	1000	30	0
LG16AAAAL	M	MR101040	R1	CY8C20110-LDX2IT	150	0	500	30	0
LG16AAAAL	M	MR101040	R1	CY8C20110-LDX2IT	150	0	1000	29	0

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

11 records

Sum 522 0

QFN (Punch Type, Pb-Free)

LY32AAAGR	L	MR093017	R1	CP6759AMT	150	0	500	27	0
LY32AAAGR	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
LY40ABGAGL	L	MR094051	R1	CYRF6936B-40LFXC	150	0	500	30	0
LY40ABGAGL	L	MR094051	R1	CYRF6936B-40LFXC	150	0	1000	30	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	0	0	500	30	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	0	0	1000	30	0
LY56DGAGL	L	MR101065	R1	CY8C24794-24LFXIT	150	0	500	30	0
LY56DGAGL	L	MR101065	R1	CY8C24794-24LFXIT	150	0	1000	30	0

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

10 records

Sum 294 0

QFN (Saw Type, Pb-free)

LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	0	0	500	80	0
LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	0	0	1000	80	0
LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150	0	500	80	0

LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150	0	1500	80	0
LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150	0	1000	80	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	150	0	500	30	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	150	0	1000	30	0
LT32BBACGL	AE	MR094061	R1	CY7C63833-LTXC	150	0	500	30	0
LT32BBACGL	AE	MR094061	R1	CY7C63833-LTXC	150	0	1000	30	0
LT32BAABGL	RA	MR101034	R1	CP6688DMT	150	0	500	30	0
LT32BAABGL	RA	MR101034	R1	CP6688DMT	150	0	1000	30	0
LT32BAAAGL	CA	MR101041	R1	CG7032AA	150	0	1000	30	0
LT48ABBAAL	MB	MR101063	R1	CY8CTMG201A-48LTXI	150	0	500	30	0
LT48ABBAAL	MB	MR101063	R1	CY8CTMG201A-48LTXI	150	0	1000	30	0
LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	150	0	500	30	0
LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	150	0	1000	30	0
LT32BAAAGL	CA	MR102039	R1	CY8C21434-24LTXIT	150	0	500	30	0
LT32BAAAGL	CA	MR102039	R1	CY8C21434-24LTXIT	150	0	1000	30	0
LT48ABAAGR	CA	NR093002	R3	CY8CTMG200-48LTXI	150	0	500	77	0
LT48ABAAGR	CA	NR093002	R3	CY8CTMG200-48LTXI	150	0	1000	77	0

Summary for Package Family: QFN (Saw Type, Pb-free) 20 records

Sum 944 0

QSOP (Pb-Free)

SQ2414ABGN	R	MR093057	R1	CY7C60223-QXC	150	0	500	29	0
SQ2414ABGN	R	MR093057	R1	CY7C60223-QXC	150	0	1000	26	0
SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	121	0	500	30	0
SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	121	0	1000	30	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	150	0	500	30	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	150	0	1000	30	0

Summary for Package Family: QSOP (Pb-Free) 6 records



Sum **175** **0**

SNC (Pb-Free)

SY2831BBLN	R	091302	R1	CY62256NLL-55SNXET	150	0	500	80	0
SY2831BBLN	R	091302	R1	CY62256NLL-55SNXET	150	0	1000	80	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	150	0	1000	30	0
SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	150	0	1000	30	0

Summary for Package Family: SNC (Pb-Free) **4** **records**

Sum **220** **0**

SOIC (J-Lead, Pb-Free)

VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	150	0	500	77	0
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	150	0	1000	77	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
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	150	0	500	30	0
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	150	0	1000	30	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	150	0	500	30	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	150	0	1000	30	0

Summary for Package Family: SOIC (J-Lead, Pb-Free) **10** **records**

Sum **392** **0**

SOIC (Pb-Free)

SZ1615FAL	T	MR092070	R4	CY23EP09SXC-1HT	150	0	500	30	0
SZ1615FAL	T	MR092070	R4	CY23EP09SXC-1HT	150	0	1000	30	0
SZ1615KDGN	RA	MR093002	R1	CY2308SXC-1	150	0	500	29	0
SZ1615KDGN	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
SZ0815TAGN	T	MR093035	R1	CY25403SXC-006T	150	0	1000	30	0
SZ28327BBL	R	MR093040	R1	CY2314ANZSXC-1	150	0	500	30	0
SZ28327BBL	R	MR093040	R1	CY2314ANZSXC-1	150	0	1000	30	0
SZ815DAGN	M	MR093056	R1	CY2303SXCT	150	0	500	30	0
SZ815DAGN	M	MR093056	R1	CY2303SXCT	150	0	1000	30	0
SZ1615KDGN	RA	MR094006	R1	CY2308SXC-1T	150	0	500	30	0
SZ1615KDGN	RA	MR094006	R1	CY2308SXC-1T	150	0	1000	30	0
SZ32457BLN	R	MR094007	R1	CY62128EV30LL-45SXI	150	0	500	30	0
SZ32457BLN	R	MR094007	R1	CY62128EV30LL-45SXI	150	0	1000	30	0
SZ1615DGN	M	MR094040	R1	CG7192AM	150	0	500	30	0
SZ1615DGN	M	MR094040	R1	CG7192AM	150	0	1000	30	0
SZ1615FAL	T	MR094049	R1	CY2309CSXC-1T	150	0	500	30	0
SZ1615FAL	T	MR094049	R1	CY2309CSXC-1T	150	0	1000	30	0
SZ324517BL	R	MR101019	R1	CG6727AMT	150	0	500	30	0
SZ324517BL	R	MR101019	R1	CG6727AMT	150	0	1000	30	0
SZ1615KBGN	RA	MR101022	R1	CY2308SXI-2	150	0	500	30	0
SZ1615KBGN	RA	MR101022	R1	CY2308SXI-2	150	0	1000	30	0
SZ24315BGN	RA	MR101023	R1	CY7C63743C-SXC	150	0	500	30	0
SZ24315BGN	RA	MR101023	R1	CY7C63743C-SXC	150	0	1000	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	0	0	500	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	0	0	1000	30	0
SZ183CBGAN	RA	MR102005	R1	CY7C63723C-SXC	150	0	500	30	0
SZ183CBGAN	RA	MR102005	R1	CY7C63723C-SXC	150	0	1000	30	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	150	0	500	30	0

SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	150	0	1000	30	0
Summary for Package Family: SOIC (Pb-Free)			33	records					
Sum								982	0
SSOP									
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			2	records					
Sum								60	0
SSOP (Pb-Free)									
SP2822BGL	M	MR092057	R1	CY8C29466-24PVXIES	150	0	1000	30	0
SP2824HAN	T	MR092070	R2	CY24242OXCT	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
SP483EBBAL	R	MR094019	R1	CY8C29666-24PVXIT	150	0	500	30	0
SP483EBBAL	R	MR094019	R1	CY8C29666-24PVXIT	150	0	1000	30	0
SP282ABAGN	RA	MR094029	R1	8C215345AK-**RASPI	150	0	500	30	0
SP282ABAGN	RA	MR094029	R1	8C215345AK-**RASPI	150	0	1000	30	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150	0	1000	30	0
SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	150	0	500	30	0
SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	150	0	1000	30	0
SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	150	0	500	30	0



SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	150	0	1000	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	150	0	500	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	150	0	1000	30	0
Summary for Package Family: SSOP (Pb-Free)			21	records					
Sum								630	0
TQFP									
A32LXGXGB	Q	MR101025	R1	CY29948AC	150	0	1000	30	0
A32LXGXGB	Q	MR101025	R1	CY29948AC	150	0	500	30	0
Summary for Package Family: TQFP			2	records					
Sum								60	0
TQFP (Pb-Free)									
AZ100RUBLN	R	092902	R1	CY7C68320C	150	0	1000	80	0
AZ144AAAGR	Q	MR092060	R1	CY7C057V-12AXC	150	0	1000	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
AZ100SEGL	R	MR093062	R1	CY37064P100-125AXC	150	0	500	30	0
AZ100SEGL	R	MR093062	R1	CY37064P100-125AXC	150	0	1000	30	0
AZ52AAGAL	Q	MR094014	R1	CY29972AXI	150	0	500	30	0

AZ52AAGAL	Q	MR094014	R1	CY29972AXI	150	0	1000	29	0
AZ100RUBLN	R	MR094053	R1	CY7C1347G-133AXC	150	0	500	30	0
AZ100RUBLN	R	MR094053	R1	CY7C1347G-133AXC	150	0	1000	30	0
AZ128BGAL	G	MR101013	R1	CY7C68013A-128AXC	150	0	500	30	0
AZ128BGAL	G	MR101013	R1	CY7C68013A-128AXC	150	0	1000	30	0
AZ32LXGAN	Q	MR101031	R1	CY29946AXI	150	0	500	30	0
AZ32LXGAN	Q	MR101031	R1	CY29946AXI	150	0	1000	30	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150	0	1000	24	0
AZ32GXGAN	G	MR102015	R1	CY29940AXCT	150	0	500	30	0
AZ32GXGAN	G	MR102015	R1	CY29940AXCT	150	0	1000	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	150	0	500	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	150	0	1000	30	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150	0	500	25	0
AZ100 (For L65 Data only)*	-	MR094074	R1	8M SRAM	150	0	1000	77	0
AZ100 (For L65 Data only)*	-	MR094074	R2	8M SRAM	150	0	1000	77	0
AZ100 (For L65 Data only)*	-	MR094074	R3	8M SRAM	150	0	1000	77	0

*Data were generated by Cypress Foundry Supplier

Summary for Package Family: TQFP (Pb-Free)

32 records

Sum 1139 0

TSOP (Pb-free)

ZT28R4BGL	R	MR092063	R1	CY7C1399BN-12ZX	150	0	500	30	0
ZT28R4BGL	R	MR092063	R1	CY7C1399BN-12ZX	150	0	1000	30	0
ZT32RABALL	T	MR092070	R5	CY62128BNLL-55ZXIT	150	0	500	30	0
ZT32RABALL	T	MR092070	R5	CY62128BNLL-55ZXIT	150	0	1000	30	0
ZT48AKAALL	T	MR092070	R6	CS7132ATT	150	0	500	25	0
ZT48AKAALL	T	MR092070	R6	CS7132ATT	150	0	1000	25	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
ZT28R4BGL	R	MR093043	R1	CY7C1399BN-12ZXCT	150	0	500	30	0
ZT28R4BGL	R	MR093043	R1	CY7C1399BN-12ZXCT	150	0	1000	30	0
ZT32RAEDLN	RA	MR094004	R1	CY62128ELL-45ZXIT	150	0	500	30	0
ZT32RAEDLN	RA	MR094004	R1	CY62128ELL-45ZXIT	150	0	1000	30	0
ZT28R2BBLN	R	MR094026	R1	CY62256NLL-55ZXI	150	0	500	30	0
ZT28R2BBLN	R	MR094026	R1	CY62256NLL-55ZXI	150	0	1000	30	0
ZT32RABALL	T	MR094044	R1	CY62128BNLL-55ZXI	150	0	500	30	0
ZT32RABALL	T	MR094044	R1	CY62128BNLL-55ZXI	150	0	1000	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXA	150	0	1000	30	0
ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	150	0	500	29	0
ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	150	0	1000	29	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	150	0	500	30	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	150	0	1000	30	0

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

Sum 677 0

TSOP I (Pb-Free)

ZB32RHBALN	R	MR093065	R1	CY62128EV30LL-45ZAXIT	150	0	500	30	0
ZB32RHBALN	R	MR093065	R1	CY62128EV30LL-45ZAXIT	150	0	1000	30	0
ZB32RHBALN	R	MR094030	R1	CY62128EV30LL-45ZAXI	150	0	500	30	0
ZB32RHBALN	R	MR094030	R1	CY62128EV30LL-45ZAXI	150	0	1000	30	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	150	0	500	30	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	150	0	1000	30	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	150	0	500	30	0



ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	150	0	1000	30	0
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Summary for Package Family: TSOP I (Pb-Free) 8 records

Sum 240 0

TSOP II (Pb-Free)

ZW444ZALL	G	092205	R1	7C1408B8BC-GZWCB	150	0	1000	77	0
ZW54CABLR	G	093403	R1	7C1408B8BC-GZWCB	150	0	500	77	0
ZW54CABLR	G	093403	R1	7C1408B8BC-GZWCB	150	0	1000	77	0
ZW444RAGN	R	MR093015	R1	CY62137VNL-70ZSXAT	150	0	1000	30	0
ZW544AALL	G	MR093026	R1	CY7C1069AV33-10ZXC	150	0	500	30	0
ZW544AALL	G	MR093026	R1	CY7C1069AV33-10ZXC	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
ZW324GALL	T	MR094045	R1	CY7C1019DV33-10ZSXI	150	0	500	30	0
ZW324GALL	T	MR094045	R1	CY7C1019DV33-10ZSXI	150	0	1000	30	0
ZW444YBLL	R	MR094059	R1	CY7C1041BNL-15ZXC	150	0	500	30	0
ZW444YBLL	R	MR094059	R1	CY7C1041BNL-15ZXC	150	0	1000	30	0
ZW444AHLL	R	MR101038	R1	CY62126EV30LL-55ZSXE	150	0	500	30	0
ZW444AHLL	R	MR101038	R1	CY62126EV30LL-55ZSXE	150	0	1000	30	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	0	0	500	30	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	0	0	1000	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	150	0	500	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	150	0	1000	30	0
ZW544AALL	G	MR102050	R1	CY7C1069AV33-10ZXC	150	0	500	30	0
ZW544AALL	G	MR102050	R1	CY7C1069AV33-10ZXC	150	0	1000	30	0

Summary for Package Family: TSOP II (Pb-Free) 20 records

Sum 741 0

TSSOP

Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	150	0	1000	27	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	150	0	500	27	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	150	0	1000	29	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	150	0	500	30	0

Summary for Package Family: TSSOP 4 records

Sum 113 0

TSSOP (Pb-Free)

ZZ2014BGN	T	MR092070	R1	CY25404ZXI-003T	150	0	1000	30	0
ZZ0812BGL	T	MR092070	R3	CY24905ZXCT	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
ZZ0812BGL	T	MR093049	R1	CYIFS781BZXCT	150	0	500	30	0
ZZ0812BGL	T	MR093049	R1	CYIFS781BZXCT	150	0	1000	30	0
ZZ0812BGL	T	MR094050	R1	CYIFS781BZXCT	150	0	500	30	0
ZZ2014BGN	T	MR094067	R1	CY25404ZXI007T	150	0	500	30	0
ZZ2014BGN	T	MR094067	R1	CY25404ZXI007T	150	0	1000	30	0
ZZ1620GBAN	RA	MR101009	R1	CY2309ZXC-1HT	150	0	500	30	0
ZZ1620GBAN	RA	MR101009	R1	CY2309ZXC-1HT	150	0	1000	30	0
ZZ1620GBAN	RA	MR102001	R1	CY2309ZXC-1HT	150	0	500	30	0
ZZ1620GBAN	RA	MR102001	R1	CY2309ZXC-1HT	150	0	1000	30	0
ZZ2014BGN	T	MR102058	R1	CY25404ZXI-005T	150	0	500	30	0
ZZ2014BGN	T	MR102058	R1	CY25404ZXI-005T	150	0	1000	30	0

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

Sum 450 0

VFBGA (0.75-0.8, 0.3mm)

BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	150	0	500	30	0
BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	150	0	1000	29	0

BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	150	0	500	30	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	150	0	1000	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			4	records					
Sum								119	0
VFBGA (0.75-0.8, 0.3mm, Pb-Free)									
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
BZ48ABCALL	AT	MR093070	R1	CG6851AM	150	0	500	30	0
BZ48ABCALL	AT	MR093070	R1	CG6851AM	150	0	1000	29	0
BZ100DGALL	RA	MR094011	R1	CYWB0120AB-BVXIT	150	0	500	30	0
BZ100DGALL	RA	MR094011	R1	CYWB0120AB-BVXIT	150	0	1000	29	0
BZ48CRALL	G	MR094024	R1	CY62167EV30LL-45BVXI	150	0	500	30	0
BZ48CRALL	G	MR094024	R1	CY62167EV30LL-45BVXI	150	0	1000	30	0
BZ48DAGLL	RA	MR094025	R1	CY62137FV30LL-45BVXIT	150	0	500	30	0
BZ48DAGLL	RA	MR094025	R1	CY62137FV30LL-45BVXIT	150	0	1000	30	0
BZ48ABCALL	AT	MR094054	R1	CY62126EV30LL-45BVXI	150	0	500	30	0
BZ48ABCALL	AT	MR094054	R1	CY62126EV30LL-45BVXI	150	0	1000	30	0
BZ48ATALL	RA	MR094071	R1	CY62157DV30LL-55BVXI	150	0	500	30	0
BZ48ATALL	RA	MR094071	R1	CY62157DV30LL-55BVXI	150	0	1000	30	0
BZ100BABLL	RA	MR101006	R1	CYDMX256A16-90BVXI	150	0	500	30	0
BZ100BABLL	RA	MR101006	R1	CYDMX256A16-90BVXI	150	0	1000	30	0

BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	150	0	500	30	0
BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	150	0	1000	30	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	0	0	500	30	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	0	0	1000	30	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	150	0	500	30	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	150	0	1000	30	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	150	0	500	30	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	150	0	1000	30	0
BZ100DGALL	RA	MR102012	R1	CYWB0120AB-BVXIT	150	0	500	30	0
BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	150	0	500	30	0
BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	150	0	1000	30	0
BZ48CFAALL	G	MR102034	R1	CY62157EV30LL-45BVXI	150	0	500	30	0
BZ48CFAALL	G	MR102034	R1	CY62157EV30LL-45BVXI	150	0	1000	30	0

Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free) 35 records

Sum 1048 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)											
BK48DLALL	G	093904	R1	C Y62187E	121	0	168	77	0		
BK48DLALL	G	093904	R2	CY62187E	121	0	168	77	0		
BK48JAAALL	G	094304	R1	7C1071NC-**GBKIB	121	0	168	76	0		
BK48JAAALL	G	094304	R3	7C1071NC-GBKIB	121	0	168	70	0		
BK48JAAALL	G	095301	R1	7C1071NC-**GBKIB	121	0	168	76	0		
BK48DJALL	G	MR093034	R1A	CY62177DV30LL-55BAXI	121	0	168	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)			6	records							
Sum								406	0		
FBGA (1.0-1.27)											
BB165ALLE	G	MR092076	R1A	CY7C1315BV18-200BZC	121	0	168	30	0		
BB165AVLE	RA	MR093067	R1	CY7C1313TV18-250BZC	121	0	168	30	0		
BB165AVLE	RA	MR101027	R1	CY7C1305TV25-167BZC	121	0	168	30	0		
BB165ALLE	G	MR101057	R1	CY7C1312CV18-250BZC	121	0	168	29	0		
BB165ALLE	G	MR101057	R1	CY7C1312CV18-250BZC	121	0	288	29	0		
BB165AVLE	RA	MR102010	R1	CY7C1313TV18-250BZC	121	0	168	28	0		
BB165AVLE	RA	MR102010	R1	CY7C1313TV18-250BZC	121	0	288	23	0		
Summary for Package Family: FBGA (1.0-1.27)			7	records							
Sum								199	0		
FBGA (1.0-1.27, Pb-free)											
BW165GAALL	RA	094002	R1(1)	CY7C1512KO	121	0	288	1	0		

BW165GAALL	RA	094002	R1	CY7C1512KO	121	0	168	75	0
BW165GAALL	RA	094002	R1	CY7C1512KO	121	0	288	71	0
BW100EAGL	G	MR093033	R1	CYP15G0101DXB-BBXI	121	0	168	30	0
Summary for Package Family: FBGA (1.0-1.27, Pb-free)			4	records					
Sum								177	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
FN49ABAAAL	AU	100302	R1	CY8CTMA300EES-49FNXI	121	0	96	77	0
FN49ABAAAL	AU	100302	R3	CY8CTMA300EES-49FNXI	121	0	96	76	0
Summary for Package Family: FLIPCHIP CSP (Pb-Free)			4	records					
Sum								303	0
PBGA (1.27)									
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	121	0	168	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	121	0	168	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	121	0	288	30	0
Summary for Package Family: PBGA (1.27)			3	records					
Sum								90	0
PBGA (Cavity/Heat Sink, Pb-free)									
BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGXI	121	0	168	30	0
BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGXI	121	0	288	30	0
Summary for Package Family: PBGA (Cavity/Heat Sink, Pb-free)			2	records					
Sum								60	0
PDIP (Pb-Free)									
PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	121	0	168	30	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	121	0	168	30	0

PZ243AAAGN	X	MR101042	R1	CY7C63743C-PXC	121	0	168	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	121	0	288	29	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	121	0	168	30	0
Summary for Package Family: PDIP (Pb-Free)			5	records					

Sum **149** **0**

PLCC

J28SEGAGB	M	MR101008	R1	CY7B923-JC	121	0	168	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	121	0	168	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	121	0	288	30	0
Summary for Package Family: PLCC			3	records					

Sum **90** **0**

PLCC (Pb-Free)

JZ32RBGAN	M	MR093054	R1	CY7C421-20JXC	121	0	168	30	0
JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	121	0	168	30	0
Summary for Package Family: PLCC (Pb-Free)			2	records					

Sum **60** **0**

PQFP (Pb-free)

NZ52DXGAN	G	MR093032	R1	CY7C136-55NXC	121	0	168	30	0
Summary for Package Family: PQFP (Pb-free)			1	records					

Sum **30** **0**

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

LK32AABAGL	L	MR093051	R1	CG7047AA	121	0	168	30	0
LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	121	0	168	30	0
Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)			2	records					

Sum **60** **0**

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



LQ32EPDAGL	RA	090706	R4A	CY8C20466A-24LQXIES	121	0	168	80	0
LQ32EPDAGL	RA	090706	R4A	CY8C20466A-24LQXIES	121	0	288	78	0
LQ32EPDAGL	RA	090706	R4B	CY8C20466A-24LQXIES	121	0	168	80	0
LQ32EPDAGL	RA	090706	R4B	CY8C20466A-24LQXIES	121	0	288	78	0
LQ32EPDAGL	RA	090706	R4C	CY8C20466A-24LQXIES	121	0	168	80	0
LQ32EPDAGL	RA	090706	R4C	CY8C20466A-24LQXIES	121	0	288	77	0
LQ36ABAAAL	RA	101102-A	R1	CY8CTMA300EES-36LQXI	121	0	168	80	0
LQ36ABAAAL	RA	101102-A	R1	CY8CTMA300EES-36LQXI	121	0	288	80	0
LQ24ADAAGL	CA	MR093018	R1A	CY8CTST200-24LQXIT	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
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	121	0	168	29	0
LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	121	0	168	30	0
LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	121	0	168	30	0
LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	121	0	168	30	0
LQ32EPDAGL	RA	MR094047	R1	CY8CTST200-32LQXIT	121	0	168	100	0
LQ32EPDAGL	RA	MR094047	R1	CY8CTST200-32LQXIT	121	0	336	100	0
LQ32DAGLL	CA	MR094047	R2	CY8CTMG201-32LQXI	121	0	168	100	0
LQ32DAGLL	CA	MR094047	R2	CY8CTMG201-32LQXI	121	0	336	99	0
LQ32EPDAGL	RA	MR094047	R3	CY8C20466-24LQXI	121	0	168	100	0
LQ32EPDAGL	RA	MR094047	R3	CY8C20466-24LQXI	121	0	336	100	0
LQ32DAGLL	CA	MR094047	R4	CY8CTMG201-32LQXI	121	0	168	100	0
LQ32DAGLL	CA	MR094047	R4	CY8CTMG201-32LQXI	121	0	336	100	0
LQ32EPDAGL	RA	MR094047	R5	CY8C20446-24LQXI	121	0	168	100	0
LQ32EPDAGL	RA	MR094047	R5	CY8C20446-24LQXI	121	0	336	100	0
LQ32EPDAGL	RA	MR094047	R6	CY8C20466-24LQXI	121	0	168	100	0
LQ32EPDAGL	RA	MR094047	R6	CY8C20466-24LQXI	121	0	336	100	0

LQ32EPDAGL	RA	MR094047	R7	CY8C20466-24LQXI	121	0	168	100	0
LQ32EPDAGL	RA	MR094047	R7	CY8C20466-24LQXI	121	0	336	100	0
LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	0	0	168	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	121	0	168	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	121	0	168	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	121	0	288	30	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	121	0	168	30	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	121	0	288	30	0
LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	121	0	168	29	0
LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	121	0	288	28	0
LQ24ADAAGL	CA	NR093002	R1	CY8CTST200-24LQXIT	121	0	168	77	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	121	0	168	77	0
LQ24AAAAAL	RA	NR093010	R1	CY8CTST200-24LQXIT	121	0	168	30	0
LQ24AAAAAL	RA	NR093010	R2	CY8C20346-24LQXIT	121	0	168	29	0
LQ24AAAAAL	RA	NR093010	R3	CY8CTST200-24LQXIT	121	0	168	30	0

Summary for Package Family: QFN (0.6mm, Saw Type, Pb-Free) 42 records

Sum 2721 0

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

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	MR093061	R1	CY8C20224-12LKXI	121	0	168	30	0
LG16AAAAAL	M	MR094028	R1	CG7216AM	121	0	168	30	0
LG16AAAAAL	M	MR101040	R1A	CG7246AM	121	0	168	30	0



LG16AAAAL	M	MR101040	R1A	CG7246AM	121	0	288	29	0
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Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free)

10 records

Sum 577 0

QFN (Punch Type, Pb-Free)

LY32AAAGR	L	MR093017	R1	CP6759AMT	121	0	168	30	0
LY48CGAGL	L	MR093046	R1	CY8C27643-24LFXIT	121	0	168	30	0
LY40ABGAGL	L	MR094051	R1	CYRF6936B-40LFXC	121	0	168	30	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	121	0	168	30	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	121	0	288	29	0
LY56DGAGL	L	MR101065	R1	CY8C24794-24LFXIT	121	0	168	30	0
LY56DGAGL	L	MR101065	R1	CY8C24794-24LFXIT	121	0	288	30	0

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

7 records

Sum 209 0

QFN (Saw Type, Pb-free)

LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	121	0	168	80	0
LT40AAABGL	RA	093405	R2	CYRF6936B-40LTXC	121	0	168	80	0
LT40AAABGL	RA	093405	R3	CYRF6936B-40LTXC	121	0	168	80	0
LT32BAABGL	RA	093803	R1	CY8C24423A5-24LTXIKA	121	0	168	80	0
LT48BBAAAL	RA	095005	R3	CY8CTMA301D-48LTXI	121	0	168	79	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	121	0	168	30	0
LT32BBACGL	AE	MR094061	R1	CY7C63833-LTXC	121	0	168	30	0
LT32BAABGL	RA	MR101034	R1	CP6688DMT	121	0	168	30	0
LT32BAAAGL	CA	MR101041	R1	CG7032AA	130	0	168	30	0
LT48ABBAAL	M	MR101063	R1A	CY8C20636A-24LTXI	121	0	168	30	0
LT48ABBAAL	M	MR101063	R1A	CY8C20636A-24LTXI	121	0	288	30	0
LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	121	0	168	30	0



LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	121	0	288	30	0
LT32BAAAGL	CA	MR102039	R1	CY8C21434-24LTXIT	121	0	168	30	0
LT32BAAAGL	CA	MR102039	R1	CY8C21434-24LTXIT	121	0	288	30	0
Summary for Package Family: QFN (Saw Type, Pb-free)			15	records					
Sum								699	0
QSOP (Pb-Free)									
SQ2414ABGN	R	MR093057	R1	CY7C60223-QXC	121	0	168	26	0
SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	121	0	168	30	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	121	0	288	30	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	121	0	168	30	0
Summary for Package Family: QSOP (Pb-Free)			4	records					
Sum								116	0
SNC (Pb-Free)									
SY2831BBLN	R	091302	R2	CY62256NLL-55SNXET	121	0	168	80	0
SY2831BBLN	R	091302	R2	CY62256NLL-55SNXET	121	0	288	80	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	121	0	168	30	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	121	0	96	30	0
SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	121	0	96	30	0
Summary for Package Family: SNC (Pb-Free)			5	records					
Sum								250	0
SOIC (J-Lead, Pb-Free)									
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	121	0	168	75	0
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	121	0	288	75	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	121	0	168	80	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	121	0	288	80	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	121	0	168	30	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	121	0	168	30	0

VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	121	0	168	30	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	121	0	168	30	0

Summary for Package Family: SOIC (J-Lead, Pb-Free) 8 records

Sum 430 0

SOIC (Pb-Free)

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
SZ0815TAGN	T	MR093035	R1	CY25403SXC-006T	121	0	168	30	0
SZ28327BBL	R	MR093040	R1	CY2314ANZSXC-1	121	0	168	30	0
SZ815DAGN	M	MR093056	R1	CY2303SXCT	121	0	168	30	0
SZ1615KDGN	RA	MR094006	R1	CY2308SXC-1T	121	0	168	30	0
SZ32457BLN	R	MR094007	R1	CY62128EV30LL-45SXI	121	0	168	30	0
SZ1615DGN	M	MR094040	R1	CG7192AM	121	0	168	30	0
SZ1615FAL	T	MR094049	R1	CY2309CSXC-1T	121	0	168	30	0
SZ324517BL	R	MR101019	R1	CG6727AMT	121	0	168	30	0
SZ1615KBGN	RA	MR101022	R1	CY2308SXI-2	121	0	168	30	0
SZ24315BGN	RA	MR101023	R1	CY7C63743C-SXC	121	0	168	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	121	0	168	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	121	0	288	30	0
SZ183CBGAN	RA	MR102005	R1	CY7C63723C-SXC	121	0	168	30	0
SZ183CBGAN	RA	MR102005	R1	CY7C63723C-SXC	121	0	288	30	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	121	0	168	30	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	121	0	288	30	0

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

Sum 570 0

SSOP



O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	121	0	168	30	0
Summary for Package Family: SSOP			1	records					
Sum								30	0
SSOP (Pb-Free)									
SP483EBBAL	R	090604	R1	CY7C1401	121	0	168	82	0
SP483EBBAL	R	090604	R1	CY7C1401	121	0	288	82	0
SP282ABAGN	RA	092701	R1	CY8C22345-12PVXE	121	0	168	80	0
SP282ABAGN	RA	092701	R1	CY8C22345-12PVXE	121	0	96	80	0
SP282ABAGN	RA	092701	R2	CY8C22345-12PVXE	121	0	168	80	0
SP282ABAGN	RA	092701	R2	CY8C22345-12PVXE	121	0	96	80	0
SP282ABAGN	RA	092701	R3	CY8C22345-12PVXE	121	0	168	80	0
SP282ABAGN	RA	092701	R3	CY8C22345-12PVXE	121	0	96	80	0
SP483EBBAL	R	094502	R1	CY7C1401	121	0	168	82	0
SP483EBBAL	R	094502	R1	CY7C1401	121	0	288	82	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
SP483EBBAL	R	MR094019	R1	CY8C29666-24PVXIT	121	0	168	30	0
SP282ABAGN	RA	MR094029	R1	8C215345AK-**RASPI	121	0	168	29	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	121	0	168	30	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	121	0	96	30	0
SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	0	0	168	30	0
SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	121	0	168	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	121	0	168	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	121	0	288	30	0
Summary for Package Family: SSOP (Pb-Free)			22	records					



Sum **1162** **0**

TQFP

A32LXGXGB	Q	MR101025	R1	CY29948AC	121	0	168	30	0
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Summary for Package Family: TQFP **1** **records**

Sum **30** **0**

TQFP (Pb-Free)

AZ100SFBAL	R	080902	R1A	CY8C3866AXI-040ES2	121	0	168	77	0
AZ100SFBAL	RA	080902	R2	CY8C3866AXI-040ES2	121	0	168	73	0
AZ100SFBAL	RA	080902	R2	CY8C3866AXI-040ES2	121	0	288	72	0
AZ100SFBAL	RA	080902	R2A	CY8C3866AXI-040ES2	121	0	168	6	0
AZ100SFBAL	RA	080902	R2A	CY8C3866AXI-040ES2	121	0	288	6	0
AZ100RUBLN	R	092902	R1	CY7C68320C	121	0	96	80	0
AZ100RUBLN	R	092902	R1A	CY7C68320C	121	0	168	80	0
AZ100RULN	R	092902	R2	CY7C68320C	121	0	96	80	0
AZ100RULN	R	092902	R2A	CY7C68320C	121	0	168	80	0
AZ100RULN	R	092902	R3	CY7C68320C	121	0	168	80	0
AZ100RULN	R	092902	R3	CY7C68320C	121	0	96	80	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
AZ100SEGL	R	MR093062	R1	CY37064P100-125AXC	121	0	168	30	0
AZ52AAGAL	Q	MR094014	R1	CY29972AXI	121	0	168	30	0
AZ100RUBLN	RA	MR094053	R1A	CY7C1347G-133AXC	121	0	168	30	0
AZ100RUBLN	RA	MR094053	R1A	CY7C1347G-133AXC	121	0	288	29	0
AZ128BGAL	G	MR101013	R1	CY7C68013A-128AXC	0	0	168	30	0



AZ32LXGAN	Q	MR101031	R1	CY29946AXI	121	0	168	30	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	121	0	168	23	0
AZ32GXGAN	G	MR102015	R1	CY29940AXCT	121	0	168	30	0
AZ32GXGAN	G	MR102015	R1	CY29940AXCT	121	0	288	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	121	0	168	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	121	0	288	30	0

Summary for Package Family: TQFP (Pb-Free) 27 records

Sum 1186 0

TSOP (Pb-free)

ZT28R4BGL	R	MR092063	R1A	CY7C1399BN-12ZXCT	121	0	168	30	0
ZT32RABALL	T	MR092070	R5	CY62128BNLL-55ZXIT	121	0	168	30	0
ZT48AKAALL	T	MR092070	R6A	7C62167FC-**TZTIB	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
ZT28R4BGL	R	MR093043	R1	CY7C1399BN-12ZXCT	121	0	168	30	0
ZT32RAEDLN	RA	MR094004	R1	CY62128ELL-45ZXIT	121	0	168	29	0
ZT28R2BBLN	R	MR094026	R1	CY62256NLL-55ZXI	121	0	168	30	0
ZT32RABALL	T	MR094044	R1	CY62128BNLL-55ZXI	121	0	168	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXA	121	0	168	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXA	121	0	288	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXA	121	0	96	30	0
ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	121	0	168	30	0
ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	121	0	288	30	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	121	0	168	30	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	121	0	288	30	0

Summary for Package Family: TSOP (Pb-free) 16 records

Sum 479 0

TSOP I (Pb-Free)

ZB32RHBALN	R	MR093065	R1	CY62128EV30LL-45ZAXIT	121	0	168	30	0
ZB32RHBALN	R	MR094030	R1	CY62128EV30LL-45ZAXI	121	0	168	30	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	121	0	288	30	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	121	0	288	29	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	121	0	168	29	0

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

Sum **148** **0**

TSOP II (Pb-Free)

ZW444ZALL	G	082703	R3	7C1408B8BC-GZWIB	121	0	168	45	0
ZW444ZALL	G	082703	R3	7C1408B8BC-GZWIB	121	0	288	43	0
ZW54CABLR	G	093403	R1	7C1408B7CC-GZWCB	121	0	168	77	0
ZW54CABLR	G	093403	R3	7C1408B7CC-GZWCB	121	0	168	77	0
ZW444RAGN	R	MR093015	R1	CY62137VNL-70ZSXAT	121	0	168	28	0
ZW444RAGN	R	MR093015	R1	CY62137VNL-70ZSXAT	121	0	96	29	0
ZW544AALL	G	MR093026	R1	CY7C1069AV33-10ZXC	121	0	168	30	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	121	0	168	30	0
ZW324GALL	T	MR094045	R1	CY7C1019DV33-10ZSXI	121	0	168	30	0
ZW444YBLL	R	MR094059	R1	CY7C1041BNL-15ZXC	121	0	168	30	0
ZW444AHLL	R	MR101038	R1	CY62126EV30LL-55ZSXE	-65	0	96	30	0
ZW444AHLL	R	MR101038	R1A	CY62128EV30LL-55ZSXE	121	0	168	30	0
ZW444AHLL	R	MR101038	R1A	CY62128EV30LL-55ZSXE	121	0	288	30	0
ZW444AHLL	R	MR101038	R1A	CY62128EV30LL-55ZSXE	121	0	96	30	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	121	0	168	30	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	121	0	288	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	121	0	168	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	121	0	288	30	0

ZW544AALL	G	MR102050	R1	CY7C1069AV33-10ZXC	121	0	168	30	0
ZW544AALL	G	MR102050	R1	CY7C1069AV33-10ZXC	121	0	288	30	0
ZW544AALL	G	RR093012	R1	CY7C1069AV33-10ZXC	121	0	168	25	0
ZW544AALL	G	RR093012	R2	CY7C1069AV33-10ZXCT	121	0	168	25	0
ZW544AALL	G	RR093016	R1	CY7C1069AV33-10ZXC	121	0	168	27	0
ZW544AALL	G	RR093016	R2	CY7C1069AV33-10ZXC	121	0	168	27	0

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

Sum 823 0

TSSOP

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 2 records

Sum 60 0

TSSOP (Pb-Free)

ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	121	0	168	30	0
ZZ0812BGL	T	MR093049	R1	CYIFS781BZXCT	121	0	168	30	0
ZZ0812BGL	T	MR094050	R1	CYIFS781BZXCT	121	0	168	30	0
ZZ2014BGN	T	MR094067	R1	CY25404ZXI007T	121	0	168	30	0
ZZ1620GBAN	RA	MR101009	R1	CY2309ZXC-1HT	121	0	168	30	0
ZZ1620GBAN	RA	MR102001	R1	CY2309ZXC-1HT	121	0	168	29	0
ZZ1620GBAN	RA	MR102001	R1	CY2309ZXC-1HT	121	0	288	29	0
ZZ2014BGN	T	MR102058	R1	CY25404ZXI-005T	121	0	168	30	0
ZZ2014BGN	T	MR102058	R1	CY25404ZXI-005T	121	0	288	30	0

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

Sum 268 0

VFBGA (0.75-0.8, 0.3mm)

BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	121	0	168	30	0
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BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	121	0	288	30	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	121	0	168	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			3	records					
Sum								90	0
VFBGA (0.75-0.8, 0.3mm, Pb-Free)									
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
BZ48ABCALL	AT	MR093070	R1	CG6851AM	121	0	168	30	0
BZ100DGALL	RA	MR094011	R1	CYWB0120AB-BVXIT	121	0	168	30	0
BZ48CRALL	G	MR094024	R1	CY62167EV30LL-45BVXI	121	0	168	30	0
BZ48DAGLL	RA	MR094025	R1	CY62137FV30LL-45BVXIT	121	0	168	29	0
BZ48ABCALL	AT	MR094054	R1	CY62126EV30LL-45BVXI	121	0	168	30	0
BZ48ATALL	RA	MR094071	R1	CY62157DV30LL-55BVXI	121	0	168	30	0
BZ100BABLL	RA	MR101006	R1	CYDMX256A16-90BVXI	121	0	168	30	0
BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	121	0	168	30	0
BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	121	0	288	29	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	121	0	168	30	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	121	0	288	30	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	121	0	168	30	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	121	0	288	30	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	121	0	168	29	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	121	0	288	29	0
BZ100DGALL	RA	MR102012	R1	CYWB0120AB-BVXIT	121	0	168	30	0
BZ100DGALL	RA	MR102012	R1	CYWB0120AB-BVXIT	121	0	288	30	0



BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	121	0	168	29	0
BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	121	0	288	29	0
BZ48CFAALL	G	MR102034	R1	CY62157EV30LL-45BVXI	121	0	168	29	0
BZ48CFAALL	G	MR102034	R1	CY62157EV30LL-45BVXI	121	0	288	29	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)					26	records			
Sum								769	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)											
BK48DLALL	G	093904	R1	C Y62187E	150/-65	0	500	77	0		
BK48DLALL	G	093904	R1	C Y62187E	150/-65	0	1000	77	0		
BK48DLALL	G	093904	R2	CY62187E	150/-65	0	500	77	0		
BK48DLALL	G	093904	R2	CY62187E	150/-65	0	1000	77	0		
BK48DLALL	G	093904	R3	CY62187	150/-65	0	500	76	0		
BK48DLALL	G	093904	R3	CY62187	150/-65	0	1000	76	0		
BK48JAAALL	G	094304	R1	7C1071NC-**GBKIB	150/-65	0	500	76	0		
BK48JAAALL	G	094304	R1	7C1071NC-**GBKIB	150/-65	0	1000	76	0		
BK48JAAALL	G	094304	R2	CY7C1071DV33	150/-65	0	500	76	0		
BK48JAAALL	G	094304	R2	CY7C1071DV33	150/-65	0	2000	37	0		
BK48JAAALL	G	094304	R2	CY7C1071DV33	150/-65	0	1000	76	0		
BK48JAAALL	G	094304	R3	CY62187	150/-65	0	500	77	0		
BK48JAAALL	G	094304	R3	CY62187	150/-65	0	2000	36	0		
BK48JAAALL	G	094304	R3	CY62187	150/-65	0	1000	77	0		
BK48JAAALL	G	095301	R1	7C1071NC-**GBKIB	150/-65	0	500	76	0		
BK48JAAALL	G	095301	R1	7C1071NC-**GBKIB	150/-65	0	1000	76	0		
BK48JAAALL	G	095301	R2	CY7C1071DV33	150/-65	0	500	76	0		
BK48JAAALL	G	095301	R2	CY7C1071DV33	150/-65	0	1000	76	0		
BK48JAAALL	G	095301	R3	7C1071NC-GBKIB	150/-65	0	500	77	0		
BK48JAAALL	G	095301	R3	7C1071NC-GBKIB	150/-65	0	1000	77	0		
BK48CDGLL	G	MR092042	R1	CY7C1041CV33-10BAXAT	150/-65	0	1000	29	0		

BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	150/-65	0	500	30	0
BK48ACAALL	AT	MR092075	R1	CY7C67200-48BAXI	150/-65	0	1000	30	0
BK48DJALL	G	MR093034	R1A	CY62177DV30LL-55BAXI	150/-65	0	500	30	0
BK48DJALL	G	MR093034	R1A	CY62177DV30LL-55BAXI	150/-65	0	1000	28	0

Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free) 25 records

Sum 1596 0

FBGA (1.0-1.27)

BB165BUALE	G	091706	R3A	CY7C1512KV18-*BZCES	150/-65	0	1000	77	0		
BB165BUALE	G	093306	R1	CY7C1512KV18-250BZC	150/-65	0	500	78	60	093306-1T1	Excessive Die Attach epoxy fillet height/ Die Crack
BB165BUALE	G	093306	R1	CY7C1512KV18-250BZC	150/-65	0	1000	13	0		
BB165BWALE	G	093306	R2	7C1570KO	150/-65	0	500	77	1	093306-2T1	Excessive Die Attach epoxy fillet height/ Die Crack
BB165BWALE	G	093306	R2	7C1570KO	150/-65	0	1000	70	0		
BB165GAALE	RA	093306	R3B	CY7C15632KV18	150/-65	0	500	77	0		
BB165GAALE	RA	093306	R3B	CY7C15632KV18	150/-65	0	1000	76	0		
BB165REALE	RA	093306	R6	CY7C15632KV18	150/-65	0	500	69	0		
BB165REALE	RA	093306	R6	CY7C15632KV18	150/-65	0	1000	68	0		
BB165GAALE	RA	093306	R8B	7C1545KO-RABBCB	150/-65	0	500	77	0		
BB165GAALE	RA	093306	R8B	7C1545KO-RABBCB	150/-65	0	1000	77	0		
BB165AVLE	RA	AR0950018	R1	CY7C1313TV18-250BZC	150/-65	0	500	17	0		
BB165AVLE	RA	AR0950018	R1	CY7C1313TV18-250BZC	150/-65	0	1000	17	0		
BB165AVLE	RA	AR0950018	R1	CY7C1313TV18-250BZC	150/-65	0	100	17	0		
BB165AVLE	RA	AR0952018	R1	CY7C1312BV18-167BZC	150/-65	0	500	17	0		
BB165AVLE	RA	AR0952018	R1	CY7C1312BV18-167BZC	150/-65	0	1000	17	0		
BB165AVLE	RA	AR0952018	R1	CY7C1312BV18-167BZC	150/-65	0	100	17	0		
BB165BILE	RA	AR1001018	R1	7C1414YC-RABBC	150/-65	0	500	19	0		
BB165BILE	RA	AR1001018	R1	7C1414YC-RABBC	150/-65	0	1000	19	0		
BB165BILE	RA	AR1001018	R1	7C1414YC-RABBC	150/-65	0	100	19	0		



BB165AVLE	RA	AR1006018	R1	CY7C1314BV18-200BZC	150/-65	0	500	15	0
BB165AVLE	RA	AR1006018	R1	CY7C1314BV18-200BZC	150/-65	0	1000	15	0
BB165AVLE	RA	AR1006018	R1	CY7C1314BV18-200BZC	150/-65	0	100	16	0
BB165AVLE	RA	MR092058	R1	CY7C1313TV18-250BZC	150/-65	0	1000	30	0
BB165AFBLE	AT	MR092076	R1	CY7C1315BV18-200BZC	150/-65	0	500	30	0
BB165AFBLE	AT	MR092076	R1	CY7C1315BV18-200BZC	150/-65	0	1000	30	0
BB165AVLE	RA	MR093067	R1	CY7C1313TV18-250BZC	150/-65	0	500	42	0
BB165AVLE	RA	MR093067	R1	CY7C1313TV18-250BZC	150/-65	0	1000	41	0
BB165AVLE	RA	MR101027	R1	CY7C1305TV25-167BZC	150/-65	0	500	28	0
BB165AVLE	RA	MR101027	R1	CY7C1305TV25-167BZC	150/-65	0	1000	28	0
BB165ALLE	G	MR101057	R1	CY7C1312CV18-250BZC	150/-65	0	500	30	0
BB165ALLE	G	MR101057	R1	CY7C1312CV18-250BZC	150/-65	0	1000	30	0
BB165AVLE	RA	MR102010	R1	CY7C1313TV18-250BZC	150/-65	0	500	29	0
BB165AVLE	RA	MR102010	R1	CY7C1313TV18-250BZC	150/-65	0	1000	29	0

Summary for Package Family: FBGA (1.0-1.27)

34 records

Sum 1311 61

FBGA (1.0-1.27, Pb-free)

BW165GAALL	RA	094002	R1	CY7C1512KO	150/-65	0	500	76	0
BW165GAALL	RA	094002	R1	CY7C1512KO	150/-65	0	1000	76	0
BW165GAALL	RA	094002	R2	CY7C1512KO	150/-65	0	500	72	0
BW165GAALL	RA	094002	R2	CY7C1512KO	150/-65	0	1000	72	0
BW165GAALL	RA	094002	R3	CY7C1512KO	150/-65	0	500	72	0
BW165GAALL	RA	094002	R3	CY7C1512KO	150/-65	0	1000	72	0
BW165RBALL	RA	093306	R7B	7C11501KO-**RABW	150/-65	0	500	76	0
BW165RBALL	RA	093306	R7B	7C11501KO-**RABW	150/-65	0	1000	76	0
BW165GAALL	RA	093306	R4B	7C11681KO-**RABWCB	150/-65	0	500	76	0
BW165GAALL	RA	093306	R4B	7C11681KO-**RABWCB	150/-65	0	1000	76	0



BW100EAGL	G	MR093033	R1	CYP15G0101DXB-BBXI	150/-65	0	500	30	0
BW100EAGL	G	MR093033	R1	CYP15G0101DXB-BBXI	150/-65	0	1000	30	0

Summary for Package Family: FBGA (1.0-1.27, Pb-free) 12 records

Sum 804 0

FLIPCHIP CSP (Pb-Free)

FN30A	AU	090802	R1	CY8C20634-12FDXIT	150/-65	0	158	66	0
FN30A	AU	090802	R1	CY8C20634-12FDXIT	150/-65	0	500	66	0
FN30A	AU	090802	R2	CY8C20634-12FDXIT	150/-65	0	500	76	0
FN49ABAAAL	AU	100302	R1	CY8CTMA300EES-49FNXI	125/-55	0	500	77	0
FN49ABAAAL	AU	100302	R1	CY8CTMA300EES-49FNXI	125/-55	0	1000	76	0
FN49ABAAAL	AU	100302	R2	CY8CTMA300EES-49FNXI	125/-55	0	500	84	0
FN49ABAAAL	AU	100302	R2	CY8CTMA300EES-49FNXI	125/-55	0	1000	83	0
FN49ABAAAL	AU	100302	R3	CY8CTMA300EES-49FNXI	150/-65	0	500	79	0
FN49ABAAAL	AU	100302	R3	CY8CTMA300EES-49FNXI	150/-65	0	1000	79	0
FN81ABAGAN	GQ	100603	R1	CYWB0125ABX-FDXI	125/-55	0	500	70	0
FN81ABAGAN	GQ	100603	R1	CYWB0125ABX-FDXI	125/-55	0	1000	70	0
FN81ABAGAN	GQ	100603	R2	CYWB0125ABX-FDXI	125/-55	0	500	77	0
FN81ABAGAN	GQ	100603	R2	CYWB0125ABX-FDXI	125/-55	0	1000	77	0
FN81ABAGAN	GQ	100603	R3	CYWB0125ABX-FDXI	125/-55	0	500	77	0
FN81ABAGAN	GQ	100603	R3	CYWB0125ABX-FDXI	125/-55	0	1000	77	0

Summary for Package Family: FLIPCHIP CSP (Pb-Free) 15 records

Sum 1134 0

PBGA (1.27)

BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	150/-65	0	500	30	0
BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	150/-65	0	1000	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	150/-65	0	500	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	150/-65	0	1000	30	0



Summary for Package Family: PBGA (1.27)

4 records

Sum 120 0

PBGA (Cavity/Heat Sink, Pb-free)

BJ256L2GL	G	MR093066	R1	CYV15G0204TRB-BGXC	150/-65	0	500	30	0
BJ256L2GL	G	MR093066	R1	CYV15G0204TRB-BGXC	150/-65	0	1000	30	0
BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGXI	150/-65	0	500	30	0
BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGXI	150/-65	0	1000	30	0

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

4 records

Sum 120 0

PDIP (Pb-Free)

PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	150/-65	0	500	30	0
PZ183DBGN	RA	MR093007	R1	CY7C63723C-PXC	150/-65	0	1000	30	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	150/-65	0	500	30	0
PZ183EAAGN	X	MR093045	R1	CP6238BM	150/-65	0	1000	30	0
PZ243AAAGN	X	MR101042	R1	CY7C63743C-PXC	150/-65	0	500	30	0
PZ243AAAGN	X	MR101042	R1	CY7C63743C-PXC	150/-65	0	1000	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	150/-65	0	500	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	150/-65	0	1000	30	0

Summary for Package Family: PDIP (Pb-Free)

8 records

Sum 240 0

PLCC

J28SEGAGB	M	MR101008	R1	CY7B923-JC	150/-65	0	500	30	0
J28SEGAGB	M	MR101008	R1	CY7B923-JC	150/-65	0	1000	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	150/-65	0	500	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	150/-65	0	1000	30	0

Summary for Package Family: PLCC

4 records

Sum 120 0

PLCC (Pb-Free)

JZ32RBGAN	M	MR093054	R1	CY7C421-20JXC	150/-65	0	500	30	0
JZ32RBGAN	M	MR093054	R1	CY7C421-20JXC	150/-65	0	1000	30	0
JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	150/-65	0	500	29	0
JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	150/-65	0	1000	29	0

Summary for Package Family: PLCC (Pb-Free) 4 records

Sum 118 0

PQFP (Pb-free)

NZ52DXGAN	G	MR093032	R1	CY7C136-55NXC	150/-65	0	500	30	0
NZ52DXGAN	G	MR093032	R1	CY7C136-55NXC	150/-65	0	1000	30	0

Summary for Package Family: PQFP (Pb-free) 2 records

Sum 60 0

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

LN32AAAAAL	CA	MR092048	R1	CP7052BTT	150/-65	0	1000	30	0
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Summary for Package Family: QFN (0.4mm, Saw Type, Pb-free) 1 records

Sum 30 0

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

LK32AABAGL	L	MR093051	R1	CG7047AA	150/-65	0	500	31	0
LK32AABAGL	L	MR093051	R1	CG7047AA	150/-65	0	1000	31	0
LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	150/-65	0	500	30	0
LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	150/-65	0	1000	30	0

Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free) 4 records

Sum 122 0

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

LQ32EPDAGL	RA	090706	R1	CY8C204665-24LQXIES	150/-65	0	500	76	0
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LQ32EPDAGL	RA	090706	R2	CY8C204665-24LQXIES	150/-65	0	500	80	0
LQ32EPDAGL	RA	090706	R2	CY8C204665-24LQXIES	150/-65	0	1000	80	0
LQ32EPDAGL	RA	090706	R3	CY8C204665-24LQXIES	150/-65	0	500	80	0
LQ36ABAAAL	RA	101102-A	R1	CY8CTMA300EES-36LQXI	150/-65	0	500	80	0
LQ36ABAAAL	RA	101102-A	R2	CY8CTMA300EES-36LQXI	150/-65	0	500	80	0
LQ36ABAAAL	RA	101102-A	R3	CY8CTMA300EES-36LQXI	150/-65	0	500	80	0
LQ24AAAAAL	RA	AR0930015	R1	CY8C20324-12LQXI	150/-65	0	1000	18	0
LQ32EPDAGL	RA	AR0931017	R1	CY8CTMG200-32LQXIT	150/-65	0	500	18	0
LQ32AFPDGL	RA	AR1007017	R1	CY8C20434-12LQXIT	150/-65	0	500	20	0
LQ32AFPDGL	RA	AR1007017	R1	CY8C20434-12LQXIT	150/-65	0	1000	20	0
LQ32AFPDGL	RA	AR1007017	R1	CY8C20434-12LQXIT	150/-65	0	100	20	0
LQ32DAGLL	CA	MR092054	R1	CY8C20466-24LQXI	150/-65	0	1000	30	0
LQ24ADAAGL	CA	MR093018	R1	CY8CTST200-24LQXIT	150/-65	0	500	30	0
LQ24ADAAGL	CA	MR093018	R1	CY8CTST200-24LQXIT	150/-65	0	1000	30	0
LQ32DAGLL	CA	MR093044	R1	CY8C20466-24LQXI	150/-65	0	500	30	0
LQ32DAGLL	CA	MR093044	R1	CY8C20466-24LQXI	150/-65	0	1000	27	0
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	150/-65	0	500	29	0
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	150/-65	0	1000	29	0
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	150/-65	0	500	30	0
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	150/-65	0	1000	30	0
LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	150/-65	0	500	29	0
LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	150/-65	0	1000	29	0
LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	150/-65	0	500	30	0
LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	150/-65	0	1000	30	0
LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	150/-65	0	500	30	0
LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	150/-65	0	1000	30	0
LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	150/-65	0	500	30	0

LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	150/-65	0	1000	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	150/-65	0	500	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	150/-65	0	1000	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	150/-65	0	500	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	150/-65	0	1000	27	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	150/-65	0	500	30	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	150/-65	0	1000	30	0
LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	150/-65	0	500	30	0
LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	150/-65	0	1000	30	0
LQ24ADAAGL	CA	NR093002	R1	CY8CTST200-24LQXIT	150/-65	0	500	72	0
LQ24ADAAGL	CA	NR093002	R1	CY8CTST200-24LQXIT	150/-65	0	1000	72	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	150/-65	0	500	77	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	150/-65	0	1000	77	0
LQ24AAAAAL	RA	NR093010	R1	CY8CTST200-24LQXIT	150/-65	0	500	29	0
LQ24AAAAAL	RA	NR093010	R1	CY8CTST200-24LQXIT	150/-65	0	1000	29	0
LQ24AAAAAL	RA	NR093010	R10	CY8CTST200-24LQXIT	150/-65	0	500	15	0
LQ24AAAAAL	RA	NR093010	R10	CY8CTST200-24LQXIT	150/-65	0	1000	13	0
LQ24AAAAAL	RA	NR093010	R11	CY8CTST200-24LQXI	150/-65	0	500	15	0
LQ24AAAAAL	RA	NR093010	R11	CY8CTST200-24LQXI	150/-65	0	1000	14	0
LQ24AAAAAL	RA	NR093010	R12	CY8CTST200-24LQXIT	150/-65	0	500	14	0
LQ24AAAAAL	RA	NR093010	R12	CY8CTST200-24LQXIT	150/-65	0	1000	12	0
LQ24AAAAAL	RA	NR093010	R13	CY8CTST200-24LQXI	150/-65	0	500	14	0
LQ24AAAAAL	RA	NR093010	R13	CY8CTST200-24LQXI	150/-65	0	1000	3	0
LQ24AAAAAL	RA	NR093010	R13	CY8CTST200-24LQXI	150/-65	0	1000	10	0
LQ24AAAAAL	RA	NR093010	R2	CY8C20346-24LQXIT	150/-65	0	500	30	0
LQ24AAAAAL	RA	NR093010	R2	CY8C20346-24LQXIT	150/-65	0	1000	29	0
LQ24AAAAAL	RA	NR093010	R3	CY8CTST200-24LQXIT	150/-65	0	500	30	0



LQ24AAAAAL	RA	NR093010	R3	CY8CTST200-24LQXIT	150/-65	0	1000	30	0
LQ24AAAAAL	RA	NR093010	R5	CY8CTST200-24LQXIT	150/-65	0	500	15	0
LQ24AAAAAL	RA	NR093010	R5	CY8CTST200-24LQXIT	150/-65	0	1000	15	0
LQ24AAAAAL	RA	NR093010	R6	CY8CTST200-24LQXIT	150/-65	0	500	15	0
LQ24AAAAAL	RA	NR093010	R6	CY8CTST200-24LQXIT	150/-65	0	1000	15	0
LQ24AAAAAL	RA	NR093010	R7	CY8CTST200-24LQXIT	150/-65	0	500	13	0
LQ24AAAAAL	RA	NR093010	R7	CY8CTST200-24LQXIT	150/-65	0	1000	12	0
LQ24AAAAAL	RA	NR093010	R8	CY8CTST200-24LQXI	150/-65	0	500	11	0
LQ24AAAAAL	RA	NR093010	R8	CY8CTST200-24LQXI	150/-65	0	1000	10	0
LQ24AAAAAL	RA	NR093010	R9	CY8CTST200-24LQXIT	150/-65	0	500	15	0
LQ24AAAAAL	RA	NR093010	R9	CY8CTST200-24LQXIT	150/-65	0	1000	15	0
LQ32DAGLL	R	RR092019	R1	CY8C20446-24LQXIT	150/-65	0	500	73	0
LQ32DAGLL	R	RR092019	R1	CY8C20446-24LQXIT	150/-65	0	1000	73	0
LQ32DAGLL	R	RR092019	R1	CY8C20446-24LQXIT	150/-65	0	100	73	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	0	500	150	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	125/-55	0	500	162	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	0	50	150	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	125/-55	0	50	162	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	125/-55	0	400	162	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	0	400	150	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	0	200	150	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	125/-55	0	200	162	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	0	100	150	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	125/-55	0	100	162	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	125/-55	0	500	199	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	0	500	150	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	125/-55	0	50	200	0



LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	0	50	150	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	125/-55	0	400	199	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	0	400	150	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	125/-55	0	200	200	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	0	200	150	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	125/-55	0	100	200	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	0	100	150	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	0	500	150	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	125/-55	0	500	200	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	0	50	150	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	125/-55	0	50	200	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	125/-55	0	400	200	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	0	400	150	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	0	200	150	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	125/-55	0	200	200	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	0	100	150	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	125/-55	0	100	200	0
LQ32DAGLL	CA	RR092025	R1	CY8C20446-24LQXIT	150/-65	0	500	77	0
LQ32DAGLL	CA	RR092025	R1	CY8C20446-24LQXIT	150/-65	0	1000	77	0
LQ32DAGLL	CA	RR092025	R1	CY8C20446-24LQXIT	150/-65	0	100	77	0
LQ32DAGLL	CA	RR092025	R2	CY8C20446-24LQXIT	150/-65	0	500	67	0
LQ32DAGLL	CA	RR092025	R2	CY8C20446-24LQXIT	150/-65	0	1000	67	0
LQ32DAGLL	CA	RR092025	R2	CY8C20446-24LQXIT	150/-65	0	100	67	0
LQ32DAGLL	CA	RR092025	R3	CY8C20446-24LQXIT	150/-65	0	500	79	0
LQ32DAGLL	CA	RR092025	R3	CY8C20446-24LQXIT	150/-65	0	1000	79	0
LQ32DAGLL	CA	RR092025	R3	CY8C20446-24LQXIT	150/-65	0	100	79	0
LQ32DAGLL	CA	RR092025	R4	CY8C20446-24LQXIT	150/-65	0	500	80	0

LQ32DAGLL	CA	RR092025	R4	CY8C20446-24LQXIT	150/-65	0	1000	79	0
LQ32DAGLL	CA	RR092025	R4	CY8C20446-24LQXIT	150/-65	0	100	80	0
LQ32DAGLL	CA	RR092025	R5	CY8CTMG200-32LQXIT	150/-65	0	500	80	0
LQ32DAGLL	CA	RR092025	R5	CY8CTMG200-32LQXIT	150/-65	0	1000	80	0
LQ32DAGLL	CA	RR092025	R5	CY8CTMG200-32LQXIT	150/-65	0	100	80	0
LQ32DAGLL	CA	RR092025	R6	CY8CTMG201-32LQXI	150/-65	0	500	80	0
LQ32DAGLL	CA	RR092025	R6	CY8CTMG201-32LQXI	150/-65	0	1000	80	0
LQ32DAGLL	CA	RR092025	R6	CY8CTMG201-32LQXI	150/-65	0	100	80	0
LQ32DAGLL	CA	RR092025	R7	CY8C20446-24LQXIT	150/-65	0	500	80	0
LQ32DAGLL	CA	RR092025	R7	CY8C20446-24LQXIT	150/-65	0	1000	80	0
LQ32DAGLL	CA	RR092025	R7	CY8C20446-24LQXIT	150/-65	0	100	80	0
LQ36ABAAAL	RA	RR102030	R1	CG7269AMT	150/-65	0	50	640	0
LQ36ABAAAL	RA	RR102030	R1	CG7269AMT	150/-65	0	100	640	0

Summary for Package Family: QFN (0.6mm, Saw Type, Pb-Free) 122 records

Sum 10298 0

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

LG16AAAAL	MB	093905	R1	CY8C20246-24LKXI	150/-65	0	500	78	0
LG16AAAAL	MB	093905	R2	CY8C20246-24LKXI	150/-65	0	500	80	0
LG16AAAAL	MB	093905	R3	CY8C20246-24LKXI	150/-65	0	500	85	0
LG16AAAAL	MB	093905	R4	CY8C20246-24LKXI	150/-65	0	500	88	0
LG16AAAAL	MB	MR092053	R1	CY8C20180-LDX2I	150/-65	0	1000	29	0
LG16AAAAL	M	MR093061	R1	CY8C20224-12LKXI	150/-65	0	500	29	0
LG16AAAAL	M	MR093061	R1	CY8C20224-12LKXI	150/-65	0	1000	29	0
LG16AAAAL	M	MR094028	R1	CG7216AM	150/-65	0	500	30	0
LG16AAAAL	M	MR094028	R1	CG7216AM	150/-65	0	1000	30	0
LG16AAAAL	M	MR101040	R1	CY8C20110-LDX2IT	150/-65	0	500	29	0
LG16AAAAL	M	MR101040	R1	CY8C20110-LDX2IT	150/-65	0	1000	29	0



LG16	MB	NR101002	R1	CP7194AT	150/-65	0	500	25	0
LG16	MB	NR101002	R1	CP7194AT	150/-65	0	1000	25	0
LG16AAAAL	MB	NR101002	R2	CP7194AT	150/-65	0	500	25	0
LG16AAAAL	MB	NR101002	R2	CP7194AT	150/-65	0	1000	25	0
LG16AAAAL	MB	NR101002	R3	CY8C20236-24LKXI	150/-65	0	500	25	0
LG16AAAAL	MB	NR101002	R3	CY8C20236-24LKXI	150/-65	0	1000	25	0

Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free) **17 records**

Sum **686** **0**

QFN (Punch Type, Pb-Free)

LY32AAAGR	L	MR093017	R1	CP6759AMT	150/-65	0	500	30	0
LY32AAAGR	L	MR093017	R1	CP6759AMT	150/-65	0	1000	30	0
LY48CGAGL	L	MR093046	R1	CY8C27643-24LFXIT	150/-65	0	500	30	0
LY48CGAGL	L	MR093046	R1	CY8C27643-24LFXIT	150/-65	0	1000	30	0
LY40ABGAGL	L	MR094051	R1	CYRF6936B-40LFXC	150/-65	0	500	27	0
LY40ABGAGL	L	MR094051	R1	CYRF6936B-40LFXC	150/-65	0	1000	27	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	150/-65	0	500	30	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	150/-65	0	1000	30	0
LY56DGAGL	L	MR101065	R1	CY8C24794-24LFXIT	150/-65	0	500	30	0
LY56DGAGL	L	MR101065	R1	CY8C24794-24LFXIT	150/-65	0	1000	30	0

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

Sum **294** **0**

QFN (Saw Type, Pb-free)

LT32BAABGL	RA	093308	R1	CY8C21434-24LTXI	150/-65	0	500	76	0
LT32BAABGL	RA	093308	R4	CY8C21434-24LTXI	150/-65	0	500	75	0
LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	150/-65	0	500	76	0
LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	150/-65	0	1000	76	0

LT40AAABGL	RA	093405	R2	CYRF6936B-40LTXC	150/-65	0	500	77	0
LT40AAABGL	RA	093405	R2	CYRF6936B-40LTXC	150/-65	0	1000	77	0
LT40AAABGL	RA	093405	R3	CYRF6936B-40LTXC	150/-65	0	500	77	0
LT40AAABGL	RA	093405	R3	CYRF6936B-40LTXC	150/-65	0	1000	77	0
LT40AAABGL	RA	093405	R4	CYRF6936B-40LTXC	150/-65	0	500	77	0
LT40AAABGL	RA	093405	R4	CYRF6936B-40LTXC	150/-65	0	1000	77	0
LT32BAABGL	RA	093803	R1	CY8C24423A5-24LTXIKA	150/-65	0	500	80	0
LT32BAABGL	RA	093803	R1	CY8C24423A5-24LTXIKA	150/-65	0	1000	80	0
LT32BAABGL	RA	093803	R2	CY8C24423A5-24LTXIKA	150/-65	0	500	80	0
LT32BAABGL	RA	093803	R2	CY8C24423A5-24LTXIKA	150/-65	0	1000	80	0
LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150/-65	0	500	80	0
LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150/-65	0	1000	80	0
LT48BBAAAL	RA	095005	R3	CY8CTMA301D-48LTXI	150/-65	0	500	77	0
LT48BBAAAL	RA	095005	R3	CY8CTMA301D-48LTXI	150/-65	0	1000	77	0
LT48BAAAAAN	MB	100102	R1	CY8CTMA300EES-48LTXI	150/-65	0	500	80	0
LT48BAAAAAN	MB	100102	R1	CY8CTMA300EES-48LTXI	150/-65	0	1000	80	0
LT48BAAAAAN	MB	100102	R2A	CY8CTMA300DES-48LTXI	150/-65	0	500	76	0
LT48BAAAAAN	M	100102	R3	CY8CTMA300DES-48LTXI	150/-65	0	500	80	0
LT32BAABGL	RA	AR0930014	R1	CY8C21434-24LTXIT	150/-65	0	500	19	0
LT32BAABGL	RA	AR0933017	R1	CY7C63833-LTXCT	150/-65	0	1000	19	0
LT32BAAGGL	M	MR092051	R1	CG6644FA	150/-65	0	1000	28	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	150/-65	0	500	30	0
LT32BAABGL	RA	MR093003	R1	CY8C21434-24LTXI	150/-65	0	1000	30	0
LT32BBACGL	AE	MR094061	R1	CY7C63833-LTXC	150/-65	0	1000	30	0
LT32BAABGL	RA	MR101034	R1	CP6688DMT	150/-65	0	500	30	0
LT32BAABGL	RA	MR101034	R1	CP6688DMT	150/-65	0	1000	29	0
LT32BAAAGL	CA	MR101041	R1	CG7032AA	150/-65	0	500	30	0



LT32BAAAGL	CA	MR101041	R1	CG7032AA	150/-65	0	1000	30	0
LT48ABBAAL	MB	MR101063	R1	CY8CTMG201A-48LTXI	150/-65	0	500	30	0
LT48ABBAAL	MB	MR101063	R1	CY8CTMG201A-48LTXI	150/-65	0	1000	30	0
LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	150/-65	0	500	30	0
LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	150/-65	0	1000	30	0
LT32BAAAGL	CA	MR102039	R1	CY8C21434-24LTXIT	150/-65	0	500	30	0
LT32BAAAGL	CA	MR102039	R1	CY8C21434-24LTXIT	150/-65	0	1000	30	0
LT48ABAAGR	CA	NR093002	R3	CY8CTMG200-48LTXI	150/-65	0	500	77	0
LT48ABAAGR	CA	NR093002	R3	CY8CTMG200-48LTXI	150/-65	0	1000	77	0
LT40ACAAGL	AE	RR102002	R2	CS7258AA	150/-65	0	925	79	0
LT40ACAAGL	AE	RR102002	R2	CS7258AA	150/-65	0	500	79	0

Summary for Package Family: QFN (Saw Type, Pb-free) 42 records

Sum 2482 0

QSOP (Pb-Free)

SQ2414ABGN	R	MR093057	R1	CY7C60223-QXC	150/-65	0	500	30	0
SQ2414ABGN	R	MR093057	R1	CY7C60223-QXC	150/-65	0	1000	30	0
SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	150/-65	0	500	29	0
SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	150/-65	0	1000	29	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	150/-65	0	500	30	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	150/-65	0	1000	30	0

Summary for Package Family: QSOP (Pb-Free) 6 records

Sum 178 0

SNC (Pb-Free)

SY2831BBLN	R	091302	R2	CY62256NLL-55SNXET	150/-65	0	500	80	0
SY2831BBLN	R	091302	R2	CY62256NLL-55SNXET	150/-65	0	1000	80	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	150/-65	0	500	30	0
SY2831AHN	R	MR093009	R1	CY62256NLL-55SNXET	150/-65	0	1000	30	0



SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	150/-65	0	500	30	0
SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	150/-65	0	1000	29	0
Summary for Package Family: SNC (Pb-Free)			6	records					
Sum								279	0
SOIC (J-Lead, Pb-Free)									
VZ28315PLL	R	092003	R1	CY7C192-15VXC	150/-65	0	500	77	0
VZ28315PLL	R	092003	R1	CY7C192-15VXC	150/-65	0	1000	77	0
VZ28315PLL	R	092003	R2	CY7C192-15VXC	150/-65	0	500	77	0
VZ28315PLL	R	092003	R2	CY7C192-15VXC	150/-65	0	1000	77	0
VZ28315PLL	R	092003	R3	CY7C192-15VXC	150/-65	0	500	75	0
VZ28315PLL	R	092003	R3	CY7C192-15VXC	150/-65	0	1000	75	0
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	150/-65	0	500	75	0
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	150/-65	0	300	75	0
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	150/-65	0	1000	75	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	150/-65	0	500	80	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	150/-65	0	300	80	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	150/-65	0	1000	80	0
VZ2846AAAN	OP	100807	R3	CY7C107BN-15VC	150/-65	0	500	78	0
VZ2846AAAN	OP	100807	R3	CY7C107BN-15VC	150/-65	0	300	78	0
VZ2846AAAN	OP	100807	R3	CY7C107BN-15VC	150/-65	0	1000	78	0
VZ2846AAAN	OP	100807	R4	CY7C107BN-15VC	150/-65	0	500	78	0
VZ2846AAAN	OP	100807	R4	CY7C107BN-15VC	150/-65	0	300	78	0
VZ2846AAAN	OP	100807	R4	CY7C107BN-15VC	150/-65	0	1000	78	0
VZ2846AAAN	OP	100807	R5	CY7C107BN-15VC	150/-65	0	500	78	0
VZ2846AAAN	OP	100807	R5	CY7C107BN-15VC	150/-65	0	300	78	0
VZ2846AAAN	OP	100807	R5	CY7C107BN-15VC	150/-65	0	1000	78	0
VZ2846AAAN	OP	100807	R6	CY7C107BN-15VC	150/-65	0	500	78	0

VZ2846AAAN	OP	100807	R6	CY7C107BN-15VC	150/-65	0	300	78	0
VZ2846AAAN	OP	100807	R6	CY7C107BN-15VC	150/-65	0	1000	78	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	150/-65	0	500	30	0
VZ444ACBLN	RA	MR093008	R1	CY7C1021DV33-10VXI	150/-65	0	1000	30	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	150/-65	0	500	30	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	150/-65	0	1000	30	0
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	150/-65	0	500	30	0
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	150/-65	0	1000	29	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	150/-65	0	500	30	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	150/-65	0	1000	30	0

Summary for Package Family: SOIC (J-Lead, Pb-Free) 32 records

Sum 2098 0

SOIC (Pb-Free)

SZ815DAGN	M	AR0921019	R1	CY27020SXCT	150/-65	0	500	15	0
SZ815DAGN	M	AR0921019	R1	CY27020SXCT	150/-65	0	1000	15	0
SZ815KAGN	M	AR0934019	R1	CY27022SXCT	150/-65	0	500	14	0
SZ815KAGN	M	AR0934019	R1	CY27022SXCT	150/-65	0	1000	14	0
SZ815DAGN	M	AR0935019	R1	CY27020SXCT	150/-65	0	500	15	0
SZ815DAGN	M	AR0935019	R1	CY27020SXCT	150/-65	0	1000	15	0
SZ815CGAN	M	AR0936020	R1	CY8C21123-24SXI	150/-65	0	500	14	0
SZ815CGAN	M	AR0936020	R1	CY8C21123-24SXI	150/-65	0	1000	14	0
SZ815DAGN	M	AR0938031	R1	CY2907FX8	150/-65	0	500	15	0
SZ815DAGN	M	AR0938031	R1	CY2907FX8	150/-65	0	1000	15	0
SZ815DAGN	M	AR0939020	R1	CY27020SXCT	150/-65	0	500	15	0
SZ815DAGN	M	AR0939020	R1	CY27020SXCT	150/-65	0	1000	15	0
SZ815CGAN	M	AR0950020	R1	CY8C24123A-24SXI	150/-65	0	500	14	0
SZ815CGAN	M	AR0950020	R1	CY8C24123A-24SXI	150/-65	0	1000	14	0

SZ815DAGN	M	AR1002025	R1	CY2300SXCT	150/-65	0	500	15	0
SZ815DAGN	M	AR1002025	R1	CY2300SXCT	150/-65	0	1000	15	0
SZ815DAGN	M	AR1002025	R1	CY2300SXCT	150/-65	0	100	15	0
SZ1615DGN	M	MR092038	R1	CS6803AAT	150/-65	0	1000	25	0
SZ1615FAL	T	MR092070	R4	CY23EP09SXC-1HT	150/-65	0	500	30	0
SZ1615FAL	T	MR092070	R4	CY23EP09SXC-1HT	150/-65	0	1000	30	0
SZ1615KDGN	RA	MR093002	R1	CY2308SXC-1	150/-65	0	500	30	0
SZ1615KDGN	RA	MR093002	R1	CY2308SXC-1	150/-65	0	1000	30	0
SZ24315BGN	RA	MR093011	R1	CY7C63743C-SXC	150/-65	0	500	30	0
SZ24315BGN	RA	MR093011	R1	CY7C63743C-SXC	150/-65	0	1000	26	0
SZ32457BLN	R	MR093019	R1	CY62128ELL-45SXIT	150/-65	0	500	30	0
SZ32457BLN	R	MR093019	R1	CY62128ELL-45SXIT	150/-65	0	1000	30	0
SZ0815TAGN	T	MR093035	R1	CY25403SXC-006T	150/-65	0	500	30	0
SZ0815TAGN	T	MR093035	R1	CY25403SXC-006T	150/-65	0	1000	30	0
SZ28327BBL	R	MR093040	R1	CY2314ANZSXC-1	150/-65	0	500	30	0
SZ28327BBL	R	MR093040	R1	CY2314ANZSXC-1	150/-65	0	1000	29	0
SZ815DAGN	M	MR093056	R1	CY2303SXCT	150/-65	0	500	30	0
SZ815DAGN	M	MR093056	R1	CY2303SXCT	150/-65	0	1000	30	0
SZ1615KDGN	RA	MR094006	R1	CY2308SXC-1T	150/-65	0	500	30	0
SZ1615KDGN	RA	MR094006	R1	CY2308SXC-1T	150/-65	0	1000	30	0
SZ32457BLN	R	MR094007	R1	CY62128EV30LL-45SXI	150/-65	0	500	30	0
SZ32457BLN	R	MR094007	R1	CY62128EV30LL-45SXI	150/-65	0	1000	30	0
SZ1615DGN	M	MR094040	R1	CG7192AM	150/-65	0	500	30	0
SZ1615DGN	M	MR094040	R1	CG7192AM	150/-65	0	1000	30	0
SZ1615FAL	T	MR094049	R1	CY2309CSXC-1T	150/-65	0	500	30	0
SZ1615FAL	T	MR094049	R1	CY2309CSXC-1T	150/-65	0	1000	30	0
SZ324517BL	R	MR101019	R1	CG6727AMT	150/-65	0	500	30	0

SZ324517BL	R	MR101019	R1	CG6727AMT	150/-65	0	1000	28	0
SZ1615KBGN	RA	MR101022	R1	CY2308SXI-2	150/-65	0	500	30	0
SZ1615KBGN	RA	MR101022	R1	CY2308SXI-2	150/-65	0	1000	30	0
SZ24315BGN	RA	MR101023	R1	CY7C63743C-SXC	150/-65	0	500	30	0
SZ24315BGN	RA	MR101023	R1	CY7C63743C-SXC	150/-65	0	1000	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	150/-65	0	500	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	150/-65	0	1000	30	0
SZ183CBGAN	RA	MR102005	R1	CY7C63723C-SXC	150/-65	0	500	32	0
SZ183CBGAN	RA	MR102005	R1	CY7C63723C-SXC	150/-65	0	1000	30	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	150/-65	0	500	30	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	150/-65	0	1000	30	0

Summary for Package Family: SOIC (Pb-Free)

52 records

Sum **1289 0**

SSOP

O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	150/-65	0	500	30	0
O483ABXAGN	R	MR093014	R1	CY2318ANZPVC-11T	150/-65	0	1000	30	0

Summary for Package Family: SSOP

2 records

Sum **60 0**

SSOP (Pb-Free)

SP483EBBAL	R	090604	R1	CY7C1401	150/-65	0	500	80	0
SP483EBBAL	R	090604	R1	CY7C1401	150/-65	0	1000	80	0
SP282ABAGN	RA	092701	R1	CY8C22345-12PVXE	150/-65	0	500	80	0
SP282ABAGN	RA	092701	R2	CY8C22345-12PVXE	150/-65	0	500	80	0
SP282ABAGN	RA	092701	R3	CY8C22345-12PVXE	150/-65	0	500	80	0
SP483EBBAL	R	094502	R1	CY7C1401	150/-65	0	500	80	0
SP483EBBAL	R	094502	R1	CY7C1401	150/-65	0	1000	80	0
SP483LBALL	R	094502	R2	CY14B101L-SP45XCT	150/-65	0	500	77	0



SP483LBALL	R	094502	R2	CY14B101L-SP45XCT	150/-65	0	1000	77	0
SP483LBALL	R	094502	R3	CY14B101L-SP45XCT	150/-65	0	500	77	0
SP483LBALL	R	094502	R3	CY14B101L-SP45XCT	150/-65	0	1000	77	0
SP483EBBAL	R	AR0921003	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP282ABAGN	RA	AR0923013	R1	CY8C27443-24PVXI	150/-65	0	500	20	0
SP282ABAGN	RA	AR0923013	R1	CY8C27443-24PVXI	150/-65	0	1000	20	0
SP483EBBAL	R	AR0929003	R1	CY8C29666-24PVXIT	150/-65	0	500	19	0
SP483EBBAL	R	AR0929003	R1	CY8C29666-24PVXIT	150/-65	0	1000	19	0
SP483EBBAL	R	AR0930003	R1	CY8C29666-24PVXIT	150/-65	0	500	18	0
SP483EBBAL	R	AR0930003	R1	CY8C29666-24PVXIT	150/-65	0	1000	18	0
SP282ABAGN	RA	AR0930013	R1	CY8C27443-24PVXIT	150/-65	0	500	20	0
SP282ABAGN	RA	AR0930013	R1	CY8C27443-24PVXIT	150/-65	0	1000	20	0
SP483EBBAL	R	AR0931003	R1	CY8C29666-24PVXIT	150/-65	0	500	18	0
SP483EBBAL	R	AR0931003	R1	CY8C29666-24PVXIT	150/-65	0	1000	18	0
SP483EBBAL	R	AR0937003	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBBAL	R	AR0937003	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP282ABAGN	RA	AR0937013	R1	CY8C27443-24PVXI	150/-65	0	500	20	0
SP282ABAGN	RA	AR0937013	R1	CY8C27443-24PVXI	150/-65	0	1000	20	0
SP483EBBAL	R	AR0940003	R1	CY8C29666-24PVXIT	150/-65	0	500	20	0
SP483EBBAL	R	AR0940003	R1	CY8C29666-24PVXIT	150/-65	0	1000	20	0
SP483EBBAL	R	AR0942003	R1	CY8C29666-24PVXI	150/-65	0	500	17	0
SP483EBBAL	R	AR0942003	R1	CY8C29666-24PVXI	150/-65	0	1000	16	0
SP282ABAGN	RA	AR0949013	R1	CY8C27443-24PVXI	150/-65	0	500	20	0
SP282ABAGN	RA	AR0949013	R1	CY8C27443-24PVXI	150/-65	0	1000	20	0
SP483EBBAL	R	AR1001003	R1	CY8C27643-24PVXI	150/-65	0	500	16	0
SP483EBBAL	R	AR1001003	R1	CY8C27643-24PVXI	150/-65	0	1000	16	0
SP483EBBAL	R	AR1001003	R1	CY8C27643-24PVXI	150/-65	0	100	18	0

SP282ABAGN	RA	AR1003013	R1	CY8C21534-24PVXIT	150/-65	0	500	20	0
SP282ABAGN	RA	AR1003013	R1	CY8C21534-24PVXIT	150/-65	0	1000	20	0
SP282ABAGN	RA	AR1003013	R1	CY8C21534-24PVXIT	150/-65	0	100	20	0
SP282ABAGN	RA	AR1005013	R1	CY7C64215-28PVXC	150/-65	0	500	17	0
SP282ABAGN	RA	AR1005013	R1	CY7C64215-28PVXC	150/-65	0	1000	17	0
SP282ABAGN	RA	AR1005013	R1	CY7C64215-28PVXC	150/-65	0	100	17	0
SP2822BGL	M	MR092057	R1	CY8C29466-24PVXIES	150/-65	0	1000	30	0
SP2824HAN	T	MR092070	R2	CY24242OXCT	150/-65	0	500	30	0
SP2824HAN	T	MR092070	R2	CY24242OXCT	150/-65	0	1000	30	0
SP2824HAN	T	MR092070	R2A	CY8C24533-24PVXI	150/-65	0	500	30	0
SP2824HAN	T	MR092070	R2A	CY8C24533-24PVXI	150/-65	0	1000	30	0
SP563DBBGN	R	MR093010	R1	CY7C66113C-PVXC	150/-65	0	500	30	0
SP563DBBGN	R	MR093010	R1	CY7C66113C-PVXC	150/-65	0	1000	30	0
SP483HAAGR	M	MR093024	R1	CY14B101L-SP45XCT	150/-65	0	500	30	0
SP483HAAGR	M	MR093024	R1	CY14B101L-SP45XCT	150/-65	0	1000	30	0
SP2814GAL	T	MR093027	R1	CS6835AT	150/-65	0	500	29	0
SP2814GAL	T	MR093027	R1	CS6835AT	150/-65	0	1000	29	0
SP2814HAL	M	MR093052	R1	CS6835AT	150/-65	0	500	30	0
SP2814HAL	M	MR093052	R1	CS6835AT	150/-65	0	1000	30	0
SP483EBBAL	R	MR094019	R1	CY8C29666-24PVXIT	150/-65	0	500	29	0
SP483EBBAL	R	MR094019	R1	CY8C29666-24PVXIT	150/-65	0	1000	29	0
SP282ABAGN	RA	MR094029	R1	8C215345AK-**RASPI	150/-65	0	500	30	0
SP282ABAGN	RA	MR094029	R1	8C215345AK-**RASPI	150/-65	0	1000	30	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150/-65	0	500	28	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150/-65	0	500	2	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150/-65	0	1000	30	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150/-65	0	100	28	0



SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	150/-65	0	500	30	0
SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	150/-65	0	1000	30	0
SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	150/-65	0	500	30	0
SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	150/-65	0	1000	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	150/-65	0	500	27	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	150/-65	0	1000	22	0
SP28214GL	T	RR093015	R1	CY8C21534-24PVXI	150/-65	0	500	77	0
SP28214GL	T	RR093015	R1	CY8C21534-24PVXI	150/-65	0	300	77	0
SP28214GL	T	RR093015	R1	CY8C21534-24PVXI	150/-65	0	100	77	0
Summary for Package Family: SSOP (Pb-Free)			71	records					
Sum								2426	0
TQFP									
A32LXGXGB	Q	MR101025	R1	CY29948AC	150/-65	0	500	30	0
A32LXGXGB	Q	MR101025	R1	CY29948AC	150/-65	0	1000	30	0
Summary for Package Family: TQFP			2	records					
Sum								60	0
TQFP (Pb-Free)									
AZ100SFBAL	RA	080902	R2	CY8C3866AXI-040ES2	150/-65	0	500	77	0
AZ100SFBAL	RA	080902	R2	CY8C3866AXI-040ES2	150/-65	0	1000	77	0
AZ100SFBAL	R	080902	R3	CY8C3866AXI-040ES2	150/-65	0	500	77	0
AZ100SFBAL	R	080902	R3	CY8C3866AXI-040ES2	150/-65	0	1000	77	0
AZ100RUBLN	R	092902	R1	CY7C68320C	150/-65	0	500	90	0
AZ100RUBLN	R	092902	R1A	CY7C68320C	150/-65	0	1000	80	0
AZ100RULN	R	092902	R2	CY7C68320C	150/-65	0	500	80	0
AZ100RULN	R	092902	R2A	CY7C68320C	150/-65	0	1000	80	0
AZ100RULN	R	092902	R3	CY7C68320C	150/-65	0	500	80	0
AZ100RULN	R	092902	R3A	CY7C68320C	150/-65	0	1000	80	0

AZ144AAAGR	Q	MR092060	R1	CY7C057V-12AXC	150/-65	0	1000	30	0
AZ100KGAN	G	MR092064	R1	CY7C09169AV-12AXC	150/-65	0	1000	30	0
AZ32GXGAN	G	MR093031	R1	CY29940AXC	150/-65	0	500	30	0
AZ32GXGAN	G	MR093031	R1	CY29940AXC	150/-65	0	1000	30	0
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	150/-65	0	500	30	0
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	150/-65	0	1000	30	0
AZ44SFBGLN	R	MR093042	R1	CY7C53120E2-10AXI	150/-65	0	500	30	0
AZ44SFBGLN	R	MR093042	R1	CY7C53120E2-10AXI	150/-65	0	1000	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	150/-65	0	500	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	150/-65	0	1000	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	150/-65	0	500	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	150/-65	0	1000	30	0
AZ100SEGL	R	MR093062	R1	CY37064P100-125AXC	150/-65	0	500	30	0
AZ100SEGL	R	MR093062	R1	CY37064P100-125AXC	150/-65	0	1000	30	0
AZ52AAGAL	Q	MR094014	R1	CY29972AXI	150/-65	0	500	30	0
AZ52AAGAL	Q	MR094014	R1	CY29972AXI	150/-65	0	1000	28	0
AZ100RUBLN	R	MR094053	R1	CY7C1347G-133AXC	150/-65	0	500	30	0
AZ100RUBLN	R	MR094053	R1	CY7C1347G-133AXC	150/-65	0	1000	30	0
AZ128BGAL	G	MR101013	R1	CY7C68013A-128AXC	150/-65	0	500	30	0
AZ128BGAL	G	MR101013	R1	CY7C68013A-128AXC	150/-65	0	1000	27	0
AZ32LXGAN	Q	MR101031	R1	CY29946AXI	150/-65	0	500	30	0
AZ32LXGAN	Q	MR101031	R1	CY29946AXI	150/-65	0	1000	30	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150/-65	0	500	30	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150/-65	0	500	7	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150/-65	0	1000	8	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150/-65	0	1000	22	0
AZ32GXGAN	G	MR102015	R1	CY29940AXCT	150/-65	0	500	30	0

AZ32GXGAN	G	MR102015	R1	CY29940AXCT	150/-65	0	1000	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	150/-65	0	500	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	150/-65	0	1000	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	150/-65	0	100	30	0
AZ100RYBLN	R	NR092001	R1	CY7C1360C-166AXI	150/-65	0	500	77	0
AZ100RYBLN	R	NR092001	R1	CY7C1360C-166AXI	150/-65	0	1000	77	0
AZ100RYBLN	R	NR092001	R2	CY7C1367C-166AXC	150/-65	0	500	77	0
AZ100RYBLN	R	NR092001	R2	CY7C1367C-166AXC	150/-65	0	1000	76	0
AZ100RYBLN	R	NR092001	R3	CY7C1356CV25-166AXCT	150/-65	0	500	76	0
AZ100RYBLN	R	NR092001	R3	CY7C1356CV25-166AXCT	150/-65	0	1000	76	0

Summary for Package Family: TQFP (Pb-Free)

47 records

Sum 2129 0

TSOP (Pb-free)

ZT32RBBALL	T	MR092059	R1	CY62128ELL-45ZXAT	150/-65	0	1000	27	0
ZT28R4BGL	R	MR092063	R1	CY7C1399BN-12ZXC	150/-65	0	500	30	0
ZT28R4BGL	R	MR092063	R1	CY7C1399BN-12ZXC	150/-65	0	1000	28	0
ZT32RABALL	T	MR092070	R5	CY62128BNLL-55ZXIT	150/-65	0	500	30	0
ZT32RABALL	T	MR092070	R5	CY62128BNLL-55ZXIT	150/-65	0	1000	30	0
ZT48AKAALL	T	MR092070	R6	CS7132ATT	150/-65	0	500	25	0
ZT48AKAALL	T	MR092070	R6	CS7132ATT	150/-65	0	1000	25	0
ZT32RAEDLN	RA	MR093006	R1	CY62128ELL-45ZXIT	150/-65	0	500	30	0
ZT32RAEDLN	RA	MR093006	R1	CY62128ELL-45ZXIT	150/-65	0	1000	30	0
ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	150/-65	0	500	30	0
ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	150/-65	0	1000	28	0
ZT28R4BGL	R	MR093043	R1	CY7C1399BN-12ZXCT	150/-65	0	500	30	0
ZT28R4BGL	R	MR093043	R1	CY7C1399BN-12ZXCT	150/-65	0	1000	29	0
ZT32RAEDLN	RA	MR094004	R1	CY62128ELL-45ZXIT	150/-65	0	500	30	0

ZT32RAEDLN	RA	MR094004	R1	CY62128ELL-45ZXIT	150/-65	0	1000	30	0
ZT28R2BBLN	R	MR094026	R1	CY62256NLL-55ZXI	150/-65	0	500	30	0
ZT28R2BBLN	R	MR094026	R1	CY62256NLL-55ZXI	150/-65	0	1000	30	0
ZT32RABALL	T	MR094044	R1	CY62128BNLL-55ZXI	150/-65	0	500	30	0
ZT32RABALL	T	MR094044	R1	CY62128BNLL-55ZXI	150/-65	0	1000	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXA	150/-65	0	500	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXA	150/-65	0	1000	30	0
ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	150/-65	0	500	30	0
ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	150/-65	0	1000	30	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	150/-65	0	500	30	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	150/-65	0	1000	30	0

Summary for Package Family: TSOP (Pb-free)

25 records

Sum 732 0

TSOP I (Pb-Free)

ZB32RHAALN	R	093104	R4	CY62138FV30LL-45ZAXI	150/-65	0	500	90	0
ZB32RHAALN	R	093104	R5	CY62138FV30LL-45ZAXI	150/-65	0	500	90	0
ZB32RHAALN	R	093104	R6	CY62138FV30LL-45ZAXI	150/-65	0	500	90	0
ZB32RHBALN	R	MR093065	R1	CY62128EV30LL-45ZAXIT	150/-65	0	500	30	0
ZB32RHBALN	R	MR093065	R1	CY62128EV30LL-45ZAXIT	150/-65	0	1000	30	0
ZB32RHBALN	R	MR094030	R1	CY62128EV30LL-45ZAXI	150/-65	0	500	30	0
ZB32RHBALN	R	MR094030	R1	CY62128EV30LL-45ZAXI	150/-65	0	1000	30	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	150/-65	0	500	30	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	150/-65	0	1000	30	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	150/-65	0	500	30	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	150/-65	0	1000	30	0

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

11 records

Sum 510 0

TSOP II (Pb-Free)

ZW444ZALL	G	082703	R1	CY14B108L-ZS25XIES	150/-65	0	1000	80	0
ZW444ZALL	G	082703	R2	7C1408B8BC-GZWIB	150/-65	0	1000	77	0
ZW444ZALL	G	082703	R3	7C1408B8BC-GZWIB	150/-65	0	500	77	0
ZW444ZALL	G	082703	R3	7C1408B8BC-GZWIB	150/-65	0	1000	77	0
ZW444ZALL	G	092205	R1	7C1408B8BC-GZWCB	150/-65	0	1000	80	0
ZW444ZALL	G	092205	R2	7C1408B8BC-GZWIB	150/-65	0	1000	77	0
ZW444ZALL	G	092205	R3	7C1408B1CC-GZWCB	150/-65	0	500	77	0
ZW444ZALL	G	092205	R3	7C1408B1CC-GZWCB	150/-65	0	1000	77	0
ZW54CABLR	G	093403	R1	7C1408B7CC-GZWCB	150/-65	0	500	77	0
ZW54CABLR	G	093403	R1	7C1408B7CC-GZWCB	150/-65	0	1000	77	0
ZW54CABLR	G	093403	R2	7C1408B7CC-GZWCB	150/-65	0	500	77	0
ZW54CABLR	G	093403	R2	7C1408B7CC-GZWCB	150/-65	0	1000	77	0
ZW54CABLR	G	093403	R3	7C1408B7CC-GZWCB	150/-65	0	500	77	0
ZW54CABLR	G	093403	R3	7C1408B7CC-GZWCB	150/-65	0	1000	77	0
ZW444RCGN	R	AR1002019	R1	CY62136VNLL-55ZSXA	150/-65	0	500	22	0
ZW444RCGN	R	AR1002019	R1	CY62136VNLL-55ZSXA	150/-65	0	1000	22	0
ZW444RCGN	R	AR1002019	R1	CY62136VNLL-55ZSXA	150/-65	0	100	22	0
ZW444AIBLL	R	AR1003002	R1	CY62126EV30LL-45ZSXIT	150/-65	0	500	19	0
ZW444AIBLL	R	AR1003002	R1	CY62126EV30LL-45ZSXIT	150/-65	0	1000	19	0
ZW444AIBLL	R	AR1003002	R1	CY62126EV30LL-45ZSXIT	150/-65	0	100	19	0
ZW54BGALL	G	MR092043	R1	CY7C1061DV33-10ZSXIT	150/-65	0	1000	30	0
ZW444RAGN	R	MR093015	R1	CY62137VNLL-70ZSXAT	150/-65	0	500	30	0
ZW444RAGN	R	MR093015	R1	CY62137VNLL-70ZSXAT	150/-65	0	1000	30	0
ZW544AALL	G	MR093026	R1	CY7C1069AV33-10ZXC	150/-65	0	500	30	0
ZW544AALL	G	MR093026	R1	CY7C1069AV33-10ZXC	150/-65	0	1000	30	0
ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	150/-65	0	500	30	0

ZW324CBLL	T	MR093030	R1	CY62148EV30LL-45ZSXI	150/-65	0	1000	30	0
ZW324GALL	T	MR094045	R1	CY7C1019DV33-10ZSXI	150/-65	0	500	30	0
ZW444YBLL	R	MR094059	R1	CY7C1041BNL-15ZXC	150/-65	0	500	30	0
ZW444YBLL	R	MR094059	R1	CY7C1041BNL-15ZXC	150/-65	0	1000	30	0
ZW444AHLL	R	MR101038	R1	CY62126EV30LL-55ZSXE	150/-65	0	500	28	0
ZW444AHLL	R	MR101038	R1	CY62126EV30LL-55ZSXE	150/-65	0	1000	28	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	150/-65	0	500	30	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	150/-65	0	1000	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	150/-65	0	500	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	150/-65	0	1000	30	0
ZW544AALL	G	MR102050	R1	CY7C1069AV33-10ZXC	150/-65	0	500	30	0
ZW544AALL	G	MR102050	R1	CY7C1069AV33-10ZXC	150/-65	0	1000	30	0
ZW544AALL	G	RR093012	R1	CY7C1069AV33-10ZXC	150/-65	0	500	45	0
ZW544AALL	G	RR093016	R1	CY7C1069AV33-10ZXC	150/-65	0	500	50	0
ZW544AALL	G	RR093016	R2	CY7C1069AV33-10ZXC	150/-65	0	500	50	0

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

41 records

Sum 1888 0

TSSOP

Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	150/-65	0	500	29	0
Z1620GBAGN	RA	MR093013	R1	CY2309ZC-1HT	150/-65	0	1000	29	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	150/-65	0	500	30	0
Z0811XAGB	M	MR093020	R1	CY2304NZZI-1T	150/-65	0	1000	30	0

Summary for Package Family: TSSOP

4 records

Sum 118 0

TSSOP (Pb-Free)

ZZ0812BGL	T	AR0921015	R1	CYIFS781BZXCT	150/-65	0	1000	15	0
ZZ1620GBAN	RA	AR1002009	R1	CY22388ZXC-24T	150/-65	0	500	15	0

ZZ1620GBAN	RA	AR1002009	R1	CY22388ZXC-24T	150/-65	0	1000	15	0
ZZ1620GBAN	RA	AR1002009	R1	CY22388ZXC-24T	150/-65	0	100	15	0
ZZ2014BGN	T	MR092070	R1	CY25404ZXI-003T	150/-65	0	500	29	0
ZZ2014BGN	T	MR092070	R1	CY25404ZXI-003T	150/-65	0	1000	29	0
ZZ0812BGL	T	MR092070	R3	CY24905ZXCT	150/-65	0	500	30	0
ZZ0812BGL	T	MR092070	R3	CY24905ZXCT	150/-65	0	1000	29	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	150/-65	0	500	30	0
ZZ2817ABGL	RA	MR093005	R1	CY24272ZXCT	150/-65	0	1000	30	0
ZZ0812BGL	T	MR093049	R1	CYIFS781BZXCT	150/-65	0	500	30	0
ZZ0812BGL	T	MR093049	R1	CYIFS781BZXCT	150/-65	0	1000	30	0
ZZ0812BGL	T	MR094050	R1	CYIFS781BZXCT	150/-65	0	500	30	0
ZZ2014BGN	T	MR094067	R1	CY25404ZXI007T	150/-65	0	500	30	0
ZZ2014BGN	T	MR094067	R1	CY25404ZXI007T	150/-65	0	1000	28	0
ZZ1620GBAN	RA	MR101009	R1	CY2309ZXC-1HT	150/-65	0	500	29	0
ZZ1620GBAN	RA	MR101009	R1	CY2309ZXC-1HT	150/-65	0	1000	13	0
ZZ1620GBAN	RA	MR101009	R1	CY2309ZXC-1HT	150/-65	0	1000	17	0
ZZ1620GBAN	RA	MR102001	R1	CY2309ZXC-1HT	150/-65	0	500	29	0
ZZ1620GBAN	RA	MR102001	R1	CY2309ZXC-1HT	150/-65	0	1000	29	0
ZZ2014BGN	T	MR102058	R1	CY25404ZXI-005T	150/-65	0	500	30	0
ZZ2014BGN	T	MR102058	R1	CY25404ZXI-005T	150/-65	0	1000	30	0
ZZ1620GBAN	RA	RR101007	R1	CY22388ZXC-24T	150/-65	0	500	100	0
ZZ1620GBAN	RA	RR101007	R1	CY22388ZXC-24T	150/-65	0	100	100	0
ZZ1620GBAN	RA	RR101007	R1A	CY22388ZXC-24T	150/-65	0	500	12	0
ZZ1620GBAN	RA	RR101007	R1A	CY22388ZXC-24T	150/-65	0	100	12	0

Summary for Package Family: TSSOP (Pb-Free)

26 records

Sum

786 0

VFBGA (0.75-0.8, 0.3mm)



BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	150/-65	0	500	30	0
BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	150/-65	0	1000	30	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	150/-65	0	500	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			3	records					
Sum								90	0
VFBGA (0.75-0.8, 0.3mm, Pb-Free)									
BZ100HAALL	RA	MR092061	R1	CYWB0224ABS-BVXI	150/-65	0	1000	28	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	150/-65	0	500	30	0
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	150/-65	0	1000	30	0
BZ48CFBALL	G	MR093025	R1	CY62157EV30LL-45BVXA	150/-65	0	500	30	0
BZ48CFBALL	G	MR093025	R1	CY62157EV30LL-45BVXA	150/-65	0	1000	30	0
BZ56BGALL	RA	MR093036	R1	CY7C68013A-56BAXC	150/-65	0	500	30	0
BZ56BGALL	RA	MR093036	R1	CY7C68013A-56BAXC	150/-65	0	1000	30	0
BZ48ABCALL	AT	MR093059	R1	CG6851AM	150/-65	0	500	30	0
BZ48ABCALL	AT	MR093059	R1	CG6851AM	150/-65	0	1000	28	0
BZ48ABCALL	AT	MR093070	R1	CG6851AM	150/-65	0	500	30	0
BZ48ABCALL	AT	MR093070	R1	CG6851AM	150/-65	0	1000	30	0
BZ100DGALL	RA	MR094011	R1	CYWB0120AB-BVXIT	150/-65	0	500	30	0
BZ100DGALL	RA	MR094011	R1	CYWB0120AB-BVXIT	150/-65	0	1000	29	0
BZ48CRALL	G	MR094024	R1	CY62167EV30LL-45BVXI	150/-65	0	500	29	0
BZ48CRALL	G	MR094024	R1	CY62167EV30LL-45BVXI	150/-65	0	1000	28	0
BZ48DAGLL	RA	MR094025	R1	CY62137FV30LL-45BVXIT	150/-65	0	500	30	0
BZ48DAGLL	RA	MR094025	R1	CY62137FV30LL-45BVXIT	150/-65	0	1000	30	0
BZ48ABCALL	AT	MR094054	R1	CY62126EV30LL-45BVXI	150/-65	0	500	30	0
BZ48ABCALL	AT	MR094054	R1	CY62126EV30LL-45BVXI	150/-65	0	1000	30	0
BZ48ATALL	RA	MR094071	R1	CY62157DV30LL-55BVXI	150/-65	0	500	29	0
BZ48ATALL	RA	MR094071	R1	CY62157DV30LL-55BVXI	150/-65	0	1000	29	0

BZ100BABL	RA	MR101006	R1	CYDMX256A16-90BVXI	150/-65	0	500	30	0
BZ100BABL	RA	MR101006	R1	CYDMX256A16-90BVXI	150/-65	0	1000	29	0
BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	150/-65	0	500	29	0
BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	150/-65	0	1000	29	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	150/-65	0	500	29	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	150/-65	0	1000	29	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	150/-65	0	500	30	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	150/-65	0	1000	30	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	150/-65	0	500	30	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	150/-65	0	1000	30	0
BZ100DGALL	RA	MR102012	R1	CYWB0120AB-BVXIT	150/-65	0	500	30	0
BZ100DGALL	RA	MR102012	R1	CYWB0120AB-BVXIT	150/-65	0	1000	30	0
BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	150/-65	0	500	30	0
BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	150/-65	0	1000	30	0
BZ48CFAALL	G	MR102034	R1	CY62157EV30LL-45BVXI	150/-65	0	500	30	0
BZ48CFAALL	G	MR102034	R1	CY62157EV30LL-45BVXI	150/-65	0	1000	30	0
BZ56BGALL	RA	NR083008	R3	CY7C68013A-56BAXC	150/-65	0	500	75	0
BZ56BGALL	RA	NR083008	R3	CY7C68013A-56BAXC	150/-65	0	1000	75	0
BZ100HAALL	RA	NR092002	R1	CYWB0224ABS-BVXI	150/-65	0	500	80	0
BZ100HAALL	RA	NR092002	R1	CYWB0224ABS-BVXI	150/-65	0	1000	80	0
BZ100HAALL	RA	NR092002	R2	CYWB0224ABM-BVXI	150/-65	0	500	80	0
BZ100HAALL	RA	NR092002	R2	CYWB0224ABM-BVXI	150/-65	0	1000	78	0
BZ100HAALL	RA	NR092002	R3	CYWB0226ABM-BVXI	150/-65	0	500	80	0
BZ100HAALL	RA	NR092002	R3	CYWB0226ABM-BVXI	150/-65	0	1000	74	0

Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free) 45 records

Sum 1717 0