

2010 Q3 RELIABILITY REPORT

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

This report summarizes Cypress Semiconductor Product Reliability for the period of the 3rd 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
B53	147,840	0	36	0	None
C8	145,104	0	Insufficient	0	None
C9	1,609,978	10	21	301	Fab defect-10 (see Note 2)
LL65	1,277,002	0	4	0	None
R5	14,400	0	Insufficient	0	None
R7	377,148	0	14	0	None
R8	332,059	0	16	0	None
R9	771,312	0	7	0	None
R95	137,634	0	Insufficient	0	None
S4	2,116,475	0	3	0	None
S8	1,369,203	3	9	106	2-General Fab Defect (see Note 3) 1-Fab Defect (see Note 4)
Grand Total	8,298,154	13	5	70	See above

Notes: 1) Insufficient data – interpret as insufficient accumulated life-time hours to project a 60%confidence bound for a zero-fails sample.
 2) CAR 200813026 – Tungsten particle reduction in the Local Interconnect layers and improved test screens
 3) 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	52,632	0	Insufficient	None
B53	116,000	0	Insufficient	None
C8	602,737	0	9	None
C9	22,080	0	Insufficient	None
LL65	1,155,705	0	5	None
R5	174,000	0	31	None
R7	418,000	0	13	None
R8	582,712	0	9	None
R95	385,263	0	14	None
S4	1,403,359	0	4	None
S8	1,787,933	0	3	None
Grand Total	6,700,420	0	1	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	2,854	1,702,946	0	0	None
S8	3,282	2,646,302	0	0	None
Grand Total	6,136	4,349,248	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.

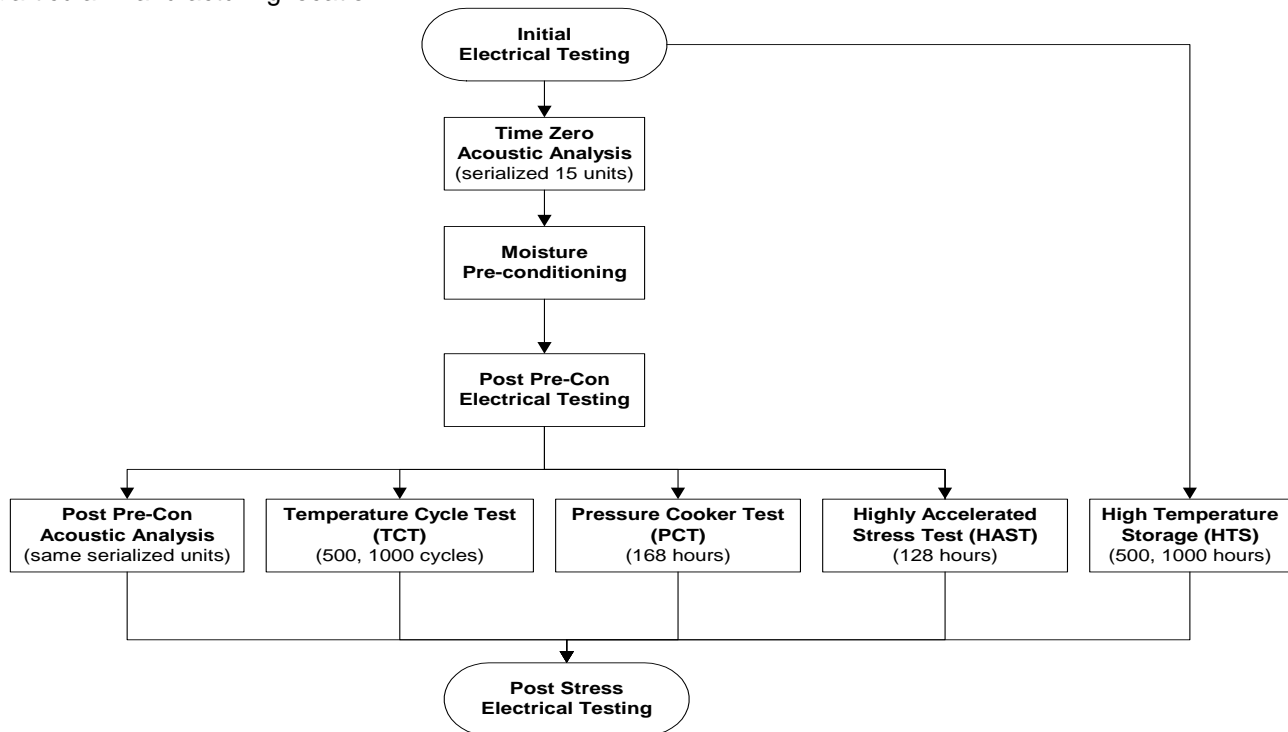


Figure 1. Cypress Package Reliability Stress Flow

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)	338	0	0	None
FBGA (1.0-1.27)	1227	0	0	None
FBGA (1.0-1.27, Pb-free)	427	0	0	None
FLIPCHIP CSP (Pb-Free)	228	0	0	None
PBGA (1.27)	119	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	60	0	0	None
PDIP (Pb-Free)	209	0	0	None
PLCC	150	0	0	None
PLCC (Pb-Free)	90	0	0	None
PQFP (Pb-free)	24	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	30	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	2786	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	169	0	0	None
QFN (Punch Type, Pb-Free)	329	0	0	None
QFN (Saw Type, Pb-free)	1048	0	0	None
QSOP (Pb-Free)	90	0	0	None
SNC (Pb-Free)	30	0	0	None
SOIC (J-Lead, Pb-Free)	485	0	0	None
SOIC (Pb-Free)	660	0	0	None
SSOP (Pb-Free)	2572	0	0	None
TQFP	30	0	0	None
TQFP (Pb-Free)	646	0	0	None
TSOP (Pb-free)	473	0	0	None
TSOP I (Pb-Free)	268	0	0	None
TSOP II (Pb-Free)	1272	0	0	None
TSSOP	60	0	0	None
TSSOP (Pb-Free)	208	0	0	None
VFBGA (0.75-0.8, 0.3mm)	150	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	740	0	0	None
Grand Total	14,918	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)	237	0	0	None
FBGA (1.0-1.27)	615	0	0	None
FBGA (1.0-1.27, Pb-free)	231	0	0	None
PDIP (Pb-Free)	89	0	0	None
PLCC	60	0	0	None
PLCC (Pb-Free)	55	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	60	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	982	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	30	0	0	None
QFN (Punch Type, Pb-Free)	115	0	0	None
QFN (Saw Type, Pb-free)	278	0	0	None
QSOP (Pb-Free)	56	0	0	None
SNC (Pb-Free)	29	0	0	None
SOIC (J-Lead, Pb-Free)	214	0	0	None
SOIC (Pb-Free)	357	0	0	None
SSOP (Pb-Free)	1,045	0	0	None
TQFP (Pb-Free)	212	0	0	None
TSOP (Pb-free)	319	0	0	None
TSOP I (Pb-Free)	177	0	0	None
TSOP II (Pb-Free)	419	0	0	None
TSSOP (Pb-Free)	60	0	0	None
VFBGA (0.75-0.8, 0.3mm)	82	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	382	0	0	None
Grand Total	6104	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)	1,214	0	0	None
FBGA (1.0-1.27)	2,078	61	2.9	Excessive Die Attach epoxy fillet height/ Die Crack (see note 1)
FBGA (1.0-1.27, Pb-free)	1,125	0	0	None
FLIPCHIP CSP (Pb-Free)	2,324	0	0	None
PBGA (1.27)	149	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	90	0	0	None
PDIP (Pb-Free)	239	0	0	None
PLCC	150	0	0	None
PLCC (Pb-Free)	88	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	91	0	0	None
QFN (0.6mm, Saw Type, Pb-Free)	7,587	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	777	0	0	None
QFN (Punch Type, Pb-Free)	354	0	0	None
QFN (Saw Type, Pb-free)	2,646	0	0	None
QSOP (Pb-Free)	148	0	0	None
SNC (Pb-Free)	139	0	0	None
SOIC (J-Lead, Pb-Free)	1,830	0	0	None
SOIC (Pb-Free)	3,044	0	0	None
SSOP (Pb-Free)	3,956	0	0	None
TQFP	60	0	0	None
TQFP (Pb-Free)	1,076	0	0	None
TSOP (Pb-free)	508	0	0	None
TSOP I (Pb-Free)	240	0	0	None
TSOP II (Pb-Free)	1,972	0	0	None
TSSOP	90	0	0	None
TSSOP (Pb-Free)	564	0	0	None
VFBGA (0.75-0.8, 0.3mm)	179	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	946	0	0	None
Grand Total	33,664	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)	381	0	0	None
FBGA (1.0-1.27)	454	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	150	0	0	None
PLCC (Pb-Free)	120	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)	1,392	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	149	0	0	None
QFN (Punch Type, Pb-Free)	359	0	0	None
QFN (Saw Type, Pb-free)	944	0	0	None
QSOP (Pb-Free)	146	0	0	None
SNC (Pb-Free)	30	0	0	None
SOIC (J-Lead, Pb-Free)	334	0	0	None
SOIC (Pb-Free)	1,290	0	0	None
SSOP (Pb-Free)	1,135	0	0	None
TQFP	60	0	0	None
TQFP (Pb-Free)	618	0	0	None
TQFP (For L65 Data Only)*	231	0	0	None
TSOP (Pb-free)	478	0	0	None
TSOP I (Pb-Free)	330	0	0	None
TSOP II (Pb-Free)	689	0	0	None
TSSOP	60	0	0	None
TSSOP (Pb-Free)	270	0	0	None
VFBGA (0.75-0.8, 0.3mm)	179	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	928	0	0	None
Grand Total	11,432	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 x 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 (RH_j) is

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

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: 10/3/2009
To: 10/03/2010



Summary Detail -- EFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
B53												
	DCD	93405	R1-Split 1	CYRF6936B-40LTXC	150	3.8	48	48	217	0		
	DCD	93405	R1-Split 2	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	93405	R1-Split 3	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	93405	R1-Split 4	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	93405	R1-Split 5	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	93405	R1-Split 6	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	93405	R1-Split 7	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	93405	R1-Split 8	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	93405	R1-Split 9	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	93405	R1-Split 10	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	93405	R2-Split 1	CYRF6936B-40LTXC	150	3.8	48	48	116	0		
	DCD	93405	R2-Split 2	CYRF6936B-40LTXC	150	3.8	48	48	78	0		
	DCD	93405	R2-Split 3	CYRF6936B-40LTXC	150	3.8	48	48	99	0		
	DCD	93405	R2-Split 4	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	93405	R2-Split 5	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	93405	R2-Split 6	CYRF6936B-40LTXC	150	3.8	48	48	335	0		
	DCD	93405	R2-Split 7	CYRF6936B-40LTXC	150	3.8	48	48	202	0		
Summary for Technology: B53			17	records				B53	3080	0		
Sum												
LL65												
	MID	93306	R1	CY7C1512KV18-250BZC	125	2.05	96	96	1100	0		
	MID	93306	R10	7C1518KO-GBBCB	125	2.05	96	96	2126	0		
	MID	93306	R2	7C1570KO	125	2.05	96	96	1001	0		
	MID	93306	R3	CY7C15632KV18	125	2.05	96	96	1089	0		
	MID	93306	R4	CY7C1518KO	125	2.05	96	96	1097	0		
	MID	93306	R5	CY7C15632KV18	125	2.05	96	96	1099	0		
	MID	93306	R6B	CY7C1568KO	125	2.05	96	96	1085	0		
	MID	93306	R7A	CY7C1513KO	125	2.05	96	96	1094	0		
	MID	93306	R8C	CY7C1515KO	125	2.05	96	96	1393	0		
	MID	93306	R9	CY7C1518KO	125	2.05	96	96	2230	0		

MID	100405	R1	CY7C15632KV18	125	1.45	96	96	1325	0
MID	100405	R1	CY7C15632KV18	125	1.45	96	96	1325	0
MID	102608	R1	CY7C1512KV18-250BZC	125	2.05	96	96	1100	0
MID	102608	R2	7C1570KO	125	2.05	96	96	1001	0
MID	102608	R3	CY7C15632KV18	125	2.05	96	96	1089	0
MID	102608	R4	CY7C1518KO	125	2.05	96	96	1097	0
MID	102608	R5	CY7C15632KV18	125	2.05	96	96	1099	0
MID	102608	R6B	CY7C1568KO	125	2.05	96	96	1084	0
MID	103408	R7	7C1514KO-**GBBC	125	1.55	96	96	2840	0

Summary for Technology: LL65

19 records

Sum **LL65 25274 0**

C9

MID	MR093071	R2	CY7C1041DV33-10ZSXI	125	2.7	96	96	5400	10
MID	MR094038	R1	CY7C1021DV33-10ZSXI	150	3.77	48	48	5885	0
MID	MR094038	R2	CY7C1041DV33-10ZSXI	150	3.77	48	48	3799	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

MR093071-2E1: Particle defect

Summary for Technology: C9

9 records

Sum **C9 33257 10**

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
CCD	090706	R1-Reg-On	CY8C205665-24PVXIES	150	5.5	48	48	45	0
CCD	090706	R3	CY8C204665-24LQXIES	150	2.1	48	48	1000	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
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	100101	R2	CY8CTMA300EES5-48LTXI	125	2.07	48	48	50	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	R5-Split 4	CY8CTMA300EES-48LTXI	150	2.07	48	48	150	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	103105	R1	CG7280AM	150	2.07	48	48	1005	0		
CCD	103105	R3	CY8CTMA340-48LQI-01	150	2.07	48	48	1005	0		
CCD	103105	R4	CG7280AM	150	2.07	48	48	1005	0		
CCD	103105	R5	CY8CTMA301E-48LQXI	150	2.07	48	48	1002	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		48	records					S8	28253	3	
Sum											
C8											
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		1	records					C8	2682	0	
Sum											
R5											
MID	MR094065	R1	CY7C1399BN-12VXI	150	3.8	48	48	300	0		
Summary for Technology: R5		1	records					R5	300	0	
Sum											
R7											
MID	101602	R1	7A1319GC	150	2.75	48	48	2074	0		
MID	101602	R1	7A1319GC	150	2.75	60	60	45	0		
MID	101602	R2	7A1319GC-	150	2.07	48	48	2837	0		

	MID	101602	R2	7A1319GC-	150	2.07	60	60	41	0	
	MID	101602	R3	7A1319GC	150	2.07	48	48	2795	0	
	MID	101602	R3	7A1319GC	150	2.07	60	60	35	0	
Summary for Technology: R7			6	records					R7	7827	0
Sum											
R8											
	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	CY62167DV30LL-55BVXI	125	2.2	96	96	4998	0	
	MID	MR102074	R1A	7G62162DK-**GBZI	125	2.4	120	120	300	0	
	MID	MR102079	R1	CY62146DV30LL-55BVI	125	2.4	96	96	299	0	
	MID	MR103040	R1	CY62157DV30LL-55BVIT	125	2.4	96	96	300	0	
Summary for Technology: R8			6	records					R8	6497	0
Sum											
R9											
	MID	MR093073	R1	7C1370XC-**RAZIB	150	2.25	48	48	3026	0	
	MID	MR093073	R2	7C1450XC-**RAZCB	150	2.25	48	48	2312	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	R4	7C1380XC-**RAZCB	150	2.25	48	48	298	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			7	records					R9	16069	0
Sum											
R95											
	MID	95101	R1	7C62187FC-**GBKIB	125	1.85	48	48	2715	0	
	MID	95101	R2	7C62187FC-**GBKIB	125	1.85	48	48	2733	0	
Summary for Technology: R95			2	records					R95	5448	0
Sum											
S4											
	MID	090404	R5-Split 2	CY8C20234-12LKXA	125	5.5	48	48	2718	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	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	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	R2	CY8C205345-12PVXI	150	5.5	60	60	3019	0
MID	93807	R1	8A29666AC-**RSPEB	125	5.5	48	48	450	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	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	100201	R1E	CY23FP12KOXC	150	3.8	48	48	1500	0
CCD	101203	R1	CY8C21534-24PVXI	125	5.5	96	96	750	0
MID	102301	R1C	CY8C22345-12PVXE	125	5.5	48	48	3782	0
MID	102301	R2	CY8C22345-12PVXE	125	5.5	72	72	835	0
MID	102301	R2	CY8C22345-12PVXE	125	5.5	96	96	2874	0
MID	102301	R3	CY8C22345-12PVXE	125	5.5	72	72	3664	0
MID	MR092080	R1	CY25100KSXCF	150	3.75	48	48	597	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
CCD	MR102072	R1	CY8C27443-24PVXIT	150	5.5	96	96	300	0

Summary for Technology: S4

42

records

S4

57332 0

Sum

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		
Summary for Technology: B53			2	records								
Sum								B53	232	0		
R8												
	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	MR101043	R1	CY62167DV30LL-55BVI	125	2.4	168	72	299	0		
	MID	MR101043	R1	CY62167DV30LL-55BVI	125	2.4	1000	832	293	0		
	MID	MR102074	R1A	7G62162DK-**GBZI	125	2.4	168	72	300	0		
	MID	MR102079	R1	CY62146DV30LL-55BVI	125	2.4	168	72	292	0		
	MID	MR102079	R1	CY62146DV30LL-55BVI	125	2.4	1000	832	269	0		
	MID	MR103040	R1	CY62157DV30LL-55BVIT	125	2.4	168	72	300	0		
Summary for Technology: R8			8	records								
Sum								R8	2346	0		
C8												
	DCD	092015	R1	CYWB0124AB-BVXI	125	3.8	1048	880	116	0		
	CBD	MR093063	R1	CY7C68013A-56PVXC	125	3.8	1000	832	300	0		
	DCD	MR094073	R1	CY7C68053-56PVXI	150	1.8	500	420	200	0		
	DCD	MR094073	R2	CY7C68053-56PVXI	150	3.8	548	468	200	0		
	MID	MR101044	R1	CYWB0120AB-BVXIT	125	3.8	168	72	294	0		
	MID	MR101044	R1	CYWB0120AB-BVXIT	125	3.8	1000	832	276	0		
Summary for Technology: C8			6	records								
Sum								C8	1386	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		
C9												
	MID	MR101066	R1	CY7C1018DV33-10VXIT	150	3.77	80	32	276	0		
Summary for Technology: C9			1	records								
Sum								C9	276	0		
S4												
	CCD	082007	R2	CY7C53120E4-40SXIES	125	5.75	1000	832	30	0		
	CCD	093003	R1A	CY8C28433-24PVXIES	125	5.25	1000	832	60	0		
	CCD	093003	R1B	CY8C28433-24PVXIES	125	5.25	1000	832	60	0		
	CCD	093003	R1C	CY8C28433-24PVXIES	125	5.25	1000	832	60	0		

MID	093807	R1	CY8C29666-12PVXE	125	5.5	1000	832	82	0
MID	093807	R2	CY8C29666-12PVXE	125	5.5	1000	832	83	0
MID	100201	R1E	CY23FP12KOXC	150	3.8	80	32	120	0
MID	100201	R1E	CY23FP12KOXC	150	3.8	500	420	120	0
CCD	MR092073	R1	CY8C21334-24PVXI	125	5.5	168	72	285	0
CCD	MR092073	R1	CY8C21334-24PVXI	125	5.5	1000	832	285	0
MID	MR092080	R1	CY25100KSXCF	150	3.8	500	420	597	0
CCD	MR093048	R1	CY8C21534-24PVXI	125	5.5	1000	832	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	832	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
CCD	MR102072	R1	CY8C27443-24PVXIT	125	5.5	192	96	299	0

Summary for Technology: S4

20

records

S4

4021

0

Sum

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	80	32	125	0
CCD	080902	R2	CY8C3866AXI-040ES2	150	2.07	500	420	124	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	2.07	80	32	127	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	2.07	500	420	125	0
MID	082703	R4	7C1408B1C	150	3.3	500	420	240	0
CCD	090706	R1	CY8C204665-24LQXIES	150	2.1	500	420	399	0
CCD	090706	R2	CY8C204665-24LQXIES	150	2.1	92	44	400	0
CCD	090706	R2	CY8C204665-24LQXIES	150	2.1	500	420	400	0
CCD	090706	R2(1)	CY8C204665-24LQXIES	150	2.1	500	420	444	0
CCD	090706	R3	CY8C204665-24LQXIES	150	2.1	80	32	400	0
CCD	090706	R3	CY8C204665-24LQXIES	150	2.1	500	420	400	0
DCD	094508	R1A-Split 1	CYONSTB20105-LBXC	125	3.8	168	72	85	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	168	72	10	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 1	CYONSTB20105-LBXC	125	3.8	1000	832	85	0
DCD	094508	R1B-Split 2	CYONSTB20105-LBXC	125	3.8	168	72	10	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 1	CYONSTB20105-LBXC	125	3.8	1000	832	85	0
DCD	094508	R1C-Split 2	CYONSTB20105-LBXC	125	3.8	168	72	10	0
DCD	094508	R1C-Split 2	CYONSTB20105-LBXC	125	3.8	1000	832	10	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		4	records				R95	732	0
Sum									
0.25um									
MID	MR093039	R1	STK14CA8-RF45	125	3.6	1000	832	100	0
Summary for Technology: 0.25um		1	records				0.25um	100	0
Sum									

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	R20A	CY8C24494-24PVXI	150	0	1000	500	80	0		
	CCD	093003	R1A	CY8C28433-24PVXIES	150	0	500	500	77	0		
	CCD	101203	R1	CY8C21534-24PVXI	150	0	500	500	77	0		
	CCD	101203	R1	CY8C21534-24PVXI	150	0	1000	500	77	0		
	CCD	101203	R2	CY8C24494-24PVXI	150	0	500	500	82	0		
	CCD	101203	R2	CY8C24494-24PVXI	150	0	1000	500	82	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	175	0	408	120	77	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	150	0	500	500	74	0		
	CCD	MR092073	R1	CY8C21334-24PVXI	150	0	1000	500	74	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	R1	CY8C21534-24PVXI	150	0	1000	500	63	0		
	CCD	MR093048	R1A	CY8C21534-24PVXI	150	0	500	500	67	0		
	CCD	MR093048	R1A	CY8C21534-24PVXI	150	0	1000	500	67	0		
	CCD	MR093064	R1	CY8C204344-12LQXI	175	0	408	120	75	0		
	CCD	MR093064	R1	CY8C204344-12LQXI	150	0	500	500	80	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		
	CCD	MR102072	R1	CY8C27443-24PVXIT	150	0	500	500	80	0		
	CCD	MR102072	R1	CY8C27443-24PVXIT	150	0	1024	524	80	0		
	CCD	MR102072	R1	CY8C27443-24PVXIT	175	0	288	288	80	0		
	CCD	MR102072	R1	CY8C27443-24PVXIT	175	0	408	120	80	0		

Summary for Technology: S4

37

records

Sum

S4

2854

0

S8

CCD	080902	R1A	CY8C3866AXI-040ES2	150	0	500	500	77	0
CCD	080902	R1A	CY8C3866AXI-040ES2	150	0	1000	500	77	0
CCD	080902	R2	CY8C3866AXI-040ES2	150	0	500	500	80	0
CCD	080902	R2	CY8C3866AXI-040ES2	150	0	1000	500	80	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	0	500	500	77	0
CCD	080902	R3	CY8C3866AXI-040ES2	150	0	1000	500	77	0
MID	082703	R4	7C1408B1C	150	0	500	500	77	0
MID	082703	R4	7C1408B1C	150	0	1000	500	77	0
CCD	090706	R1	CY8C204665-24LQXIES	150	0	1446	446	77	0
CCD	090706	R2	CY8C204665-24LQXIES	150	0	500	500	80	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	R3	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
DCD	094508	R1A	CYONSTB20105-LBXC	150	0	600	600	25	0
DCD	094508	R1A	CYONSTB20105-LBXC	150	0	1024	424	25	0
DCD	094508	R1A	CYONSTB20105-LBXC	150	0	1500	500	24	0
DCD	094508	R1B	CYONSTB20105-LBXC	150	0	600	600	26	0
DCD	094508	R1B	CYONSTB20105-LBXC	150	0	1024	424	26	0
DCD	094508	R1B	CYONSTB20105-LBXC	150	0	1500	500	26	0
DCD	094508	R1C	CYONSTB20105-LBXC	150	0	600	600	26	0
DCD	094508	R1C	CYONSTB20105-LBXC	150	0	1024	424	25	0
DCD	094508	R1C	CYONSTB20105-LBXC	150	0	1500	500	25	0
CCD	094703	R1	CY8C20466A-24LQXIES	150	0	500	500	80	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	R2	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	100101	R1	CY8CTMA300EES5-48LTXI	150	0	500	500	77	0
CCD	100101	R1	CY8CTMA300EES5-48LTXI	150	0	1000	500	77	0
CCD	100101	R1	CY8CTMA300EES5-48LTXI	150	0	1500	500	77	0
CCD	100102	R2C	CY8CTMA300DES-48LTXI	150	0	1000	500	77	0
CCD	102406	R1	CY8C20566-24PVXI	150	0	524	524	80	0
CCD	102406	R1	CY8C20566-24PVXI	150	0	1000	500	80	0
CCD	102406	R2	CY8C20566-24PVXI	150	0	524	524	80	0
CCD	102406	R2	CY8C20566-24PVXI	150	0	1000	500	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			records				S8	3282	0
Sum									



FROM: 10/3/2009

TO: 10/03/2010

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)											
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		
BK48DJALL	G	MR094034	R1	CY62177DV30LL-55BAXI	110	3.6	128	23	0		
BK48HAGLL	G	MR102064	R1	CY14B104L-BA458XC	110	3.3	128	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)			5	records							
Sum								237	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		
BB165BUALE	G	102608	R1	CY7C1512KV18-250BZC	130	2.05	264	78	0		
BB165BWALE	G	102608	R2	7C1570KO	130	2.05	264	76	0		
BB165GAALE	RA	102608	R8A	7C1543KO	130	2.05	264	77	0		



Summary for Package Family: FBGA (1.0-1.27)

8 records

Sum 615 0

FBGA (1.0-1.27, Pb-free)

BW165RBALL	RA	093306	R4C	7C11701KO-RABWCB	110	2.05	264	77	0
BW165RBALL	RA	093306	R4C	7C11701KO-RABWCB	110	2.05	528	77	0
BW165RBALL	RA	102608	R4C	7C11701KO	130	2.05	264	77	0

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

3 records

Sum 231 0

PDIP (Pb-Free)

PZ183DBGN	RA	MR102061	R1	CY7C63813-PXC	130	5.5	128	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	130	5.5	128	29	0
PZ183DPBGN	RA	MR103005	R1	CY7C63723C-PXC	130	5.5	128	30	0

Summary for Package Family: PDIP (Pb-Free)

3 records

Sum 89 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
JZ52SFGAN	M	MR103026	R1	CY7C136-25JXC	130	5.25	128	25	0

Summary for Package Family: PLCC (Pb-Free)

2 records

Sum 55 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
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
LQ24ADAAGL	CA	MR101056	R1	CG7153CM	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
LQ36AAAAAN	M	MR102063	R1	CG7269AMT	130	5.5	128	29	0

LQ32EPDAGL	RA	MR103013	R1	CY8C20446-24LQXI	130	5.25	128	30	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	130	5.25	128	30	0
LQ24AAAAAL	RA	NR093004	R1	CY8C20324-12LQXI	130	5.25	128	2	0
LQ24AAAAAL	RA	NR093004	R1	CY8C20324-12LQXI	130	5.25	128	23	0
LQ24AAAAAL	RA	NR093004	R2	CY8C20334-12LQXIT	130	5.25	128	25	0
LQ24AAAAAL	RA	NR093004	R3	CY8C20324-12LQXI	130	5.25	128	25	0
LQ24AAAAAL	RA	NR093005	R14	CP7196ATT	130	5.25	128	30	0
LQ24AAAAAL	RA	NR093005	R15	CP7196ATT	130	5.25	128	30	0
LQ24AAAAAL	RA	NR093005	R3	CY8C20334-12LQXIT	130	5.25	128	25	0
LQ24AAAAAL	RA	NR093005	R3A	CY8C20334-12LQXIT	130	5.25	128	3	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) 31 records

Sum 982 0

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

LG16AAAAL	M	MR094028	R1A	CP7270AT	130	5.25	128	30	0
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Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free) 1 records

Sum 30 0

QFN (Punch Type, Pb-Free)

LY40ABGAGL	L	MR094051	R1	CYRF6936B-40LFXC	130	3.63	128	29	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	130	5.25	128	29	0
LY68AGABGL	L	MR102048	R1	CS6656AAT	130	5.25	128	28	0
LY68AGAAGL	L	MR103043	R1	CS6656AAT	130	5.25	128	29	0



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

4 records

Sum 115 0

QFN (Saw Type, Pb-free)

LT48BAAAAAN	MB	100101	R2	CY8CTMA300EES5-48LTXI	130	5.5	128	80	0
LT48BAAAAAN	MB	100102	R1	CY8CTMA300EES-48LTXI	130	5.5	128	80	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
LT56BDAAGL	AE	MR103052	R1	CY7C64215-56LTXC	130	5.25	128	30	0

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

6 records

Sum 278 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	MR094002	R1	CY62256NLL-55SNXET	130	5.5	96	29	0
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Summary for Package Family: SNC (Pb-Free)

1 records

Sum 29 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
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	130	3.65	128	29	0



VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	130	5.55	128	30	0
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Summary for Package Family: SOIC (J-Lead, Pb-Free) 4 records

Sum 214 0

SOIC (Pb-Free)

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
SZ815PAFGN	RA	MR102016	R1	CY2305SXI-1HT	130	3.63	128	30	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	130	5.5	128	30	0
SZ1615DGN	M	MR102049	R1	CG7192AM	130	5.25	128	30	0
SZ1615FAL	T	MR102055	R1	CY7C63803-SXC	130	5.5	128	30	0
SZ32457LN	R	MR103008	R1	CY62128ELL-45SXA	130	5.5	96	30	0

Summary for Package Family: SOIC (Pb-Free) 12 records

Sum 357 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
SP483JBALL	R	093807	R1	CY8C29666-12PVXE	130	5.25	96	80	0
SP483JBALL	R	093807	R2	CY8C29666-12PVXE	130	5.25	96	84	0

SP483JBALL	R	093807	R3	CY8C29666-12PVXE	130	5.25	96	84	0
SP563GAAGL	R	101205	R1	CY8C28000-24PVXI	130	5.25	128	78	0
SP282ABAGN	RA	102301	R1C	CY8C22345-12PVXE	130	5.25	96	80	0
SP282ABAGN	RA	102301	R2	CY8C22345-12PVXE	130	5.25	96	80	0
SP282ABAGN	RA	102301	R3	CY8C22345-12PVXE	130	5.25	96	80	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
SP282ABAGN	RA	MR102008	R1	8C215345AK-**RASPI	130	5.25	128	30	0
SP483ACGAN	R	MR102025	R1	CY8CTST200-48PVXI	130	2.25	128	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	130	3.63	128	30	0
SP483ACGAN	R	MR103028	R1	CY8C20546A-24PVXI	130	5.25	128	30	0

Summary for Package Family: SSOP (Pb-Free)

18 records

Sum 1045 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	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)

4 records

Sum 212 0

TSOP (Pb-free)

ZT28R2BBLN	R	091302	R2A	CY62256VNLL	130	5.5	256	79	0
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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
ZT28R4BGL	R	MR102053	R1	CY7C1399BNL-12ZXCT	130	3.63	128	30	0
ZT32RAEDLN	RA	MR103003	R1	CY62128EV30LL-45ZXI	130	3.6	128	30	0
ZT32RABALL	T	MR103056	R1	CY62138FV30LL-45ZXI	130	3.6	128	30	0

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

Sum 319 0

TSOP I (Pb-Free)

ZB32RHBALN	R	MR093065	R1	CY62128EV30LL-45ZAXIT	130	3.6	128	30	0
ZB32RHBALN	R	MR094030	R1	CY62128EV30LL-45ZAXI	130	3.6	128	30	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	110	3.6	264	29	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	130	3.6	128	28	0
ZB32RHBALN	R	MR103006	R1	CY62138FV30LL-45ZAXI	130	3.6	128	30	0
ZB32RKALL	T	MR103025	R1	CG7086AM	130	3.6	128	30	0

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

Sum 177 0

TSOP II (Pb-Free)

ZW324FBGL	T	101602	R1	7A1319GC	130	3.63	96	80	0
ZW324FBGL	T	101602	R2	7A1319GC-	130	3.63	96	80	0
ZW324FBGL	T	101602	R3	7A1319GC	130	3.63	96	80	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
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	130	3.65	128	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	130	3.6	128	30	0
ZW444AMLN	R	MR102040	R1	CY62146ELL-45ZSXA	130	3.6	96	29	0

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

Sum 419 0

TSSOP (Pb-Free)

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) 2 records

Sum 60 0

VFBGA (0.75-0.8, 0.3mm)

BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	110	3.6	264	30	0
BV48BEABLE	G	MR102018	R1	CY62146DV30LL-55BVI	110	3.6	128	22	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	110	3.63	264	30	0

Summary for Package Family: VFBGA (0.75-0.8, 0.3mm) 3 records

Sum 82 0

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

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
BZ48ATALL	RA	MR103002	R1	CY62157DV30LL-70BVXIT	110	3.6	264	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)			13	records					
Sum								382	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)											
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		
BK48DJALL	G	MR093034	R1	CY62177DV30LL-55BAXI	150	0	1000	30	0		
BK48DJALL	G	MR094034	R1	CY62177DV30LL-55BAXI	150	0	500	30	0		
BK48DJALL	G	MR094034	R1	CY62177DV30LL-55BAXI	150	0	1000	30	0		
BK48HAGLL	G	MR102064	R1	CY14B104L-BA458XC	150	0	500	30	0		
BK48HAGLL	G	MR102064	R1	CY14B104L-BA458XC	150	0	1000	30	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)			8	records							
Sum								381	0		
FBGA (1.0-1.27)											
BB165BUALE	G	093202	R3	CY7C15631KV18-450BZC	150	0	1000	80	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		
BB165GAALE	RA	MR102046	R1	CY7C1514KV18-250BZI	150	0	500	30	0		

BB165GAALE	RA	MR102046	R1	CY7C1514KV18-250BZI	150	0	1000	30	0
BB165BUALE	G	MR102047	R1	CY7C1514KV18-300BZI	150	0	500	30	0
BB165BUALE	G	MR102047	R1	CY7C1514KV18-300BZI	150	0	1000	30	0
BB165AVLE	RA	MR103021	R1	CY7C1305TV25-167BZC	150	0	500	30	0
BB165AVLE	RA	MR103021	R1	CY7C1305TV25-167BZC	150	0	1000	29	0

Summary for Package Family: FBGA (1.0-1.27) 14 records

Sum 454 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)

BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	150	0	500	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	150	0	1000	30	0
BG119QALE	G	MR102066	R1	CY7C1347S-166BGC	150	0	500	30	0
BG119QALE	G	MR102066	R1	CY7C1347S-166BGC	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-BGX1	150	0	500	30	0
BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGX1	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	MR102061	R1	CY7C63813-PXC	150	0	500	30	0
PZ183DBGN	RA	MR102061	R1	CY7C63813-PXC	150	0	1000	30	0
PZ183DPBGN	RA	MR103005	R1	CY7C63723C-PXC	150	0	500	30	0
PZ183DPBGN	RA	MR103005	R1	CY7C63723C-PXC	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
J32RBGAAGB	X	MR103058	R1	CY7B991-2JCT	150	0	500	30	0

Summary for Package Family: PLCC

5 records

Sum **150 0**

PLCC (Pb-Free)

JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	150	0	500	30	0
JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	150	0	1000	30	0
JZ52SFGAN	M	MR103026	R1	CY7C136-25JXC	150	0	500	30	0
JZ52SFGAN	M	MR103026	R1	CY7C136-25JXC	150	0	1000	30	0

Summary for Package Family: PLCC (Pb-Free)

4 records

Sum **120 0**

PQFP (Pb-free)

NZ52DXGAN	G	MR103073	R1	CY7C136-55NXC	150	0	500	30	0
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Summary for Package Family: PQFP (Pb-free)

1 records

Sum **30 0**

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

LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	150	0	500	30	0
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LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	150	0	1000	30	0
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Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)

2 records

Sum **60 0**

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

LQ36AAAAAN	MB	093706	R1	CY8CTMA300DES-36LQXI	150	0	500	80	0
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LQ36AAAAAN	MB	093706	R1	CY8CTMA300DES-36LQXI	150	0	1000	80	0
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LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	150	0	1000	30	0
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LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	150	0	500	30	0
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LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	150	0	1000	30	0
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LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	150	0	500	30	0
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LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	150	0	1000	30	0
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LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	150	0	500	30	0
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LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	150	0	1000	30	0
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LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	150	0	500	30	0
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LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	150	0	1000	30	0
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LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	150	0	500	30	0
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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
LQ24ADAAGL	CA	MR101056	R1	CG7153CM	150	0	500	30	0
LQ24ADAAGL	CA	MR101056	R1	CG7153CM	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
LQ36AAAAAN	M	MR102063	R1	CG7269AMT	150	0	500	30	0
LQ36AAAAAN	M	MR102063	R1	CG7269AMT	150	0	1000	30	0
LQ32EPDAGL	RA	MR103013	R1	CY8C20446-24LQXI	150	0	500	30	0
LQ32EPDAGL	RA	MR103013	R1	CY8C20446-24LQXI	150	0	1000	30	0
LQ24ADAAGL	CA	NR093002	R1	CY8CTST200-24LQXIT	150	0	1000	77	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	150	0	1000	77	0
LQ24AAAAAL	RA	NR093004	R1	CY8C20324-12LQXI	150	0	1000	25	0
LQ24AAAAAL	RA	NR093004	R2	CY8C20334-12LQXIT	150	0	1000	25	0
LQ24AAAAAL	RA	NR093004	R3	CY8C20324-12LQXI	150	0	1000	25	0
LQ24AAAAAL	RA	NR093005	R1	CY8C20334-12LQXIT	150	0	1000	25	0
LQ24AAAAAL	RA	NR093005	R2	CY8C20334-12LQXIT	150	0	1000	25	0
LQ24AAAAAL	RA	NR093005	R3	CY8C20334-12LQXIT	150	0	1000	25	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) 41 records

Sum 1392 0

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

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) 5 records

Sum 149 0

QFN (Punch Type, Pb-Free)

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	150	0	500	30	0
LY32AAAGR	L	MR101050	R1	CP6759AMT	150	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
LY40CGAGR	L	MR102044	R1	CYRF69213-40LFXC	150	0	500	30	0
LY40CGAGR	L	MR102044	R1	CYRF69213-40LFXC	150	0	1000	30	0



LY68AGABGL	L	MR102048	R1	CS6656AAT	150	0	500	30	0
LY68AGABGL	L	MR102048	R1	CS6656AAT	150	0	1000	29	0
LY68AGAAGL	L	MR103043	R1	CS6656AAT	150	0	500	30	0
LY68AGAAGL	L	MR103043	R1	CS6656AAT	150	0	1000	30	0

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

Sum 359 0

QFN (Saw Type, Pb-free)

LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	150	0	500	80	0
LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	150	0	1000	80	0
LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150	0	500	80	0
LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150	0	1000	80	0
LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150	0	1500	80	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
LT56BDAAGL	AE	MR103052	R1	CY7C64215-56LTXC	150	0	500	30	0



LT56BDAAGL	AE	MR103052	R1	CY7C64215-56LTXC	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	1000	26	0
SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	150	0	500	30	0
SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	150	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) 5 records

Sum 146 0

SNC (Pb-Free)

SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	150	0	1000	30	0
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Summary for Package Family: SNC (Pb-Free) 1 records

Sum 30 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
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

VZ32314BLL	R	MR102033	R1	CY7C1018DV33-10VXI	150	0	500	30	0	
VZ32314BLL	R	MR102033	R1	CY7C1018DV33-10VXI	150	0	1000	30	0	
Summary for Package Family: SOIC (J-Lead, Pb-Free)			8	records						
Sum								334	0	
SOIC (Pb-Free)										
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	150	0	500	30	0	
SZ1615DGN	M	MR101062	R1	CG7192AM	150	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	
SZ815PAFGN	RA	MR102016	R1	CY2305SXI-1HT	150	0	500	30	0	

SZ815PAFGN	RA	MR102016	R1	CY2305SXI-1HT	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
SZ1615DGN	M	MR102049	R1	CG7192AM	150	0	500	30	0
SZ1615DGN	M	MR102049	R1	CG7192AM	150	0	1000	30	0
SZ1615FAL	T	MR102055	R1	CY7C63803-SXC	150	0	500	30	0
SZ1615FAL	T	MR102055	R1	CY7C63803-SXC	150	0	1000	30	0
SZ32457LN	R	MR103008	R1	CY62128ELL-45SXA	150	0	1000	30	0
SZ815PABGN	RA	RR102010	R1	CY22381FXC	150	0	500	80	0
SZ815PABGN	RA	RR102010	R1	CY22381FXC	150	0	1000	80	0
SZ815PABGN	RA	RR102010	R2	CY22381FXC	150	0	500	80	0
SZ815PABGN	RA	RR102010	R2	CY22381FXC	150	0	1000	80	0
SZ815PABGN	RA	RR102010	R3	CY22381FXC	150	0	500	80	0
SZ815PABGN	RA	RR102010	R3	CY22381FXC	150	0	1000	80	0

Summary for Package Family: SOIC (Pb-Free)

33 records

Sum **1290 0**

SSOP (Pb-Free)

SP483JBALL	R	093807	R1	CY8C29666-12PVXE	150	0	1000	85	0
SP563GAAGL	R	101205	R1	CY8C28000-24PVXI	150	0	500	80	0
SP563GAAGL	R	101205	R1	CY8C28000-24PVXI	150	0	1000	80	0
SP563GAAGL	R	101205	R1	CY8C28000-24PVXI	150	0	1500	80	0
SP483ACGAN	R	102306	R1	CY8C20546-24PVXI	150	0	500	95	0
SP483ACGAN	R	102306	R1	CY8C20546-24PVXI	150	0	1000	90	0
SP483ACGAN	R	102306	R1	CY8C20546-24PVXI	150	0	1500	85	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
SP282ABAGN	RA	MR102008	R1	8C215345AK-**RASPI	150	0	500	30	0
SP282ABAGN	RA	MR102008	R1	8C215345AK-**RASPI	150	0	1000	30	0
SP483ACGAN	R	MR102025	R1	CY8CTST200-48PVXI	150	0	500	30	0
SP483ACGAN	R	MR102025	R1	CY8CTST200-48PVXI	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
SP483ACGAN	R	MR103028	R1	CY8C20546A-24PVXI	150	0	500	30	0
SP483ACGAN	R	MR103028	R1	CY8C20546A-24PVXI	150	0	1000	30	0

Summary for Package Family: SSOP (Pb-Free) 25 records

Sum 1135 0

TQFP

A32LXGXGB	Q	MR101025	R1	CY29948AC	150	0	500	30	0
A32LXGXGB	Q	MR101025	R1	CY29948AC	150	0	1000	30	0

Summary for Package Family: TQFP 2 records

								60	0
Sum								60	0
TQFP (Pb-Free)									
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	150	0	1000	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	150	0	1000	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	500	25	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
AZ32GXGAN	G	MR102032	R1	CY29940AXCT	150	0	500	30	0
AZ32GXGAN	G	MR102032	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
AZ100AGAL	G	MR102065	R1	CY7C008V-25AXC	150	0	500	30	0
AZ100AGAL	G	MR102065	R1	CY7C008V-25AXC	150	0	1000	30	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

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

Sum 849 0

TSOP (Pb-free)

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
ZT28R4BGL	R	MR102053	R1	CY7C1399BNL-12ZXCT	150	0	500	30	0
ZT28R4BGL	R	MR102053	R1	CY7C1399BNL-12ZXCT	150	0	1000	30	0
ZT32RAEDLN	RA	MR103003	R1	CY62128EV30LL-45ZXI	150	0	500	30	0
ZT32RAEDLN	RA	MR103003	R1	CY62128EV30LL-45ZXI	150	0	1000	30	0
ZT32RABALL	T	MR103056	R1	CY62138FV30LL-45ZXI	150	0	500	30	0

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

Sum 478 0

TSOP I (Pb-Free)

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
ZB32RHBALN	R	MR103006	R1	CY62138FV30LL-45ZAXI	150	0	500	30	0
ZB32RHBALN	R	MR103006	R1	CY62138FV30LL-45ZAXI	150	0	1000	30	0
ZB32RKALL	T	MR103025	R1	CG7086AM	150	0	500	30	0
ZB32RKALL	T	MR103025	R1	CG7086AM	150	0	1000	30	0

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

11 records

Sum 330 0

TSOP II (Pb-Free)

ZW54CABLR	G	093403	R1	7C1408B7CC	150	0	500	77	0
ZW54CABLR	G	093403	R1	7C1408B7CC	150	0	1000	77	0
ZW324FBGL	T	101602	R1	7A1319GC	150	0	1000	85	0
ZW544AALL	G	MR093026	R1	CY7C1069AV33-10ZXC	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	150	0	500	30	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	150	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
ZW444AMLN	R	MR102040	R1	CY62146ELL-45ZSXA	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
ZW544AALL	G	MR103034	R1	CY7C1061AV33-10ZXC	150	0	500	30	0

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

Sum 689 0

TSSOP

Z2412XAGB	M	MR102017	R1	W232-10XT	150	0	500	30	0
Z2412XAGB	M	MR102017	R1	W232-10XT	150	0	1000	30	0

Summary for Package Family: TSSOP 2 records

Sum 60 0

TSSOP (Pb-Free)

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

Sum 270 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
BV48BEABLE	G	MR102018	R1	CY62146DV30LL-55BVI	150	0	500	30	0
BV48BEABLE	G	MR102018	R1	CY62146DV30LL-55BVI	150	0	1000	30	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) 6 records

Sum 179 0

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

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	150	0	500	30	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	150	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
BZ48ATALL	RA	MR103002	R1	CY62157DV30LL-70BVXIT	150	0	500	30	0
BZ48ATALL	RA	MR103002	R1	CY62157DV30LL-70BVXIT	150	0	1000	30	0
BZ100BABLL	RA	MR103020	R1	CYDMX256A16-65BVXI	150	0	500	30	0
BZ100BABLL	RA	MR103020	R1	CYDMX256A16-65BVXI	150	0	1000	30	0

Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free) 31 records

Sum 928 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)											
BK48JAAALL	G	094304	R1	7C1071NC-**GBKIB	121	0	168	76	0		
BK48JAAALL	G	094304	R3	CY7C1071DV33	121	0	168	70	0		
BK48JAAALL	G	095301	R1	7C1071NC-**GBKIB	121	0	168	76	0		
BK48DJALL	G	MR094034	R1A	CY62177DV30LL-55BAXI	121	0	168	30	0		
BK48DJALL	G	MR094034	R1A	CY62177DV30LL-55BAXI	121	0	288	30	0		
BK48HAGLL	G	MR102064	R1	CY14B104L-BA458XC	121	0	168	28	0		
BK48HAGLL	G	MR102064	R1	CY14B104L-BA458XC	121	0	288	28	0		
Summary for Package Family: FBGA (0.75-0.8, 0.3mm, Pb-free)			7	records							
Sum								338	0		
FBGA (1.0-1.27)											
BB165GAALE	RA	101704	R3	7C1545KO	121	0	24	70	0		
BB165GAALE	RA	101704	R3	7C1545KO	121	0	168	77	0		
BB165GAALE	RA	101704	R3	7C1545KO	121	0	288	77	0		
BB165GAALE	RA	102608	R11	7C1568KO	121	0	96	77	0		
BB165GAALE	RA	102608	R11	7C1568KO	121	0	168	77	0		
BB165GAALE	RA	102608	R11	7C1568KO	121	0	168	17	0		
BB165GAALE	RA	102608	R13	7C15632KO	121	0	96	77	0		
BB165GAALE	RA	102608	R13	7C15632KO	121	0	168	77	0		
BB165GAALE	RA	102608	R13	7C15632KO	121	0	16824	5	0		
BB165RBALE	RA	102608	R6A	CY7C1520KO	121	0	168	77	0		
BB165RBALE	RA	102608	R6A	CY7C1520KO	121	0	288	77	0		

BB165GAALE	RA	102608	R8B	7C1545KO-	121	0	24	70	0
BB165GAALE	RA	102608	R8B	7C1545KO-	121	0	168	77	0
BB165GAALE	RA	102608	R8B	7C1545KO-	121	0	288	77	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
BB165GAALE	RA	MR102046	R1	CY7C1514KV18-250BZI	121	0	168	26	0
BB165GAALE	RA	MR102046	R1	CY7C1514KV18-250BZI	121	0	288	26	0
BB165BUALE	G	MR102047	R1	CY7C1514KV18-300BZI	121	0	168	26	0
BB165BUALE	G	MR102047	R1	CY7C1514KV18-300BZI	121	0	288	26	0
BB165AVLE	RA	MR103021	R1	CY7C1305TV25-167BZC	121	0	168	26	0
BB165AVLE	RA	MR103021	R1	CY7C1305TV25-167BZC	121	0	288	26	0

Summary for Package Family: FBGA (1.0-1.27)

25 records

Sum **1227 0**

FBGA (1.0-1.27, Pb-free)

BW165GAALL	RA	094002	R1	CY7C1512KO	121	0	288	71	0
BW165GAALL	RA	094002	R1(1)	CY7C1512KO	121	0	288	1	0
BW165GAALL	RA	102608	R12	7C1512KO	121	0	168	75	0
BW165GAALL	RA	102608	R12	7C1512KO	121	0	168	2	0
BW165GAALL	RA	102608	R12	7C1512KO	121	0	96	75	0
BW165GAALL	RA	102608	R4A	7C11481KO	121	0	288	77	0
BW165GAALL	RA	102608	R4A	7C11481KO	121	0	168	77	0
BW165GAALL	RA	102608	R4A	7C11481KO	121	0	24	49	0



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

8 records

Sum 427 0

FLIPCHIP CSP (Pb-Free)

FN49ABAAAL	AU	100302	R1	CY8CTMA300EES-49FNXI	121	0	96	77	0
FN49ABAAAL	AU	100302	R3	CY8CTMA300EES-49FNXI	121	0	96	76	0
FN30	AU	101601	R3	8F20746A	121	0	96	75	0

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

3 records

Sum 228 0

PBGA (1.27)

BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	121	0	168	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	121	0	288	30	0
BG119QALE	G	MR102066	R1	CY7C1347S-166BGC	121	0	168	30	0
BG119QALE	G	MR102066	R1	CY7C1347S-166BGC	121	0	288	29	0

Summary for Package Family: PBGA (1.27)

4 records

Sum 119 0

PBGA (Cavity/Heat Sink, Pb-free)

BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGX1	121	0	168	30	0
BJ256L2GL	G	MR102054	R1	CYP15G0401DXB-BGX1	121	0	288	30	0

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

2 records

Sum 60 0

PDIP (Pb-Free)

PZ243AAAGN	X	MR101042	R1	CY7C63743C-PXC	121	0	168	30	0
PZ183DBGN	RA	MR102061	R1	CY7C63813-PXC	121	0	168	30	0
PZ183DBGN	RA	MR102061	R1	CY7C63813-PXC	121	0	288	30	0



PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	121	0	168	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	121	0	288	29	0
PZ183DPBGN	RA	MR103005	R1	CY7C63723C-PXC	121	0	168	30	0
PZ183DPBGN	RA	MR103005	R1	CY7C63723C-PXC	121	0	288	30	0

Summary for Package Family: PDIP (Pb-Free) 7 records

Sum 209 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
J32RBGAAGB	X	MR103058	R1	CY7B991-2JCT	121	0	168	30	0
J32RBGAAGB	X	MR103058	R1	CY7B991-2JCT	121	0	288	30	0

Summary for Package Family: PLCC 5 records

Sum 150 0

PLCC (Pb-Free)

JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	121	0	168	30	0
JZ52SFGAN	M	MR103026	R1	CY7C136-25JXC	121	0	168	30	0
JZ52SFGAN	M	MR103026	R1	CY7C136-25JXC	121	0	288	30	0

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

Sum 90 0

PQFP (Pb-free)

NZ52DXGAN	G	MR103073	R1	CY7C136-55NXC	121	0	168	24	0
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Summary for Package Family: PQFP (Pb-free) 1 records

Sum 24 0

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



LK32AABAGL	L	MR094033	R1	CY8C20434-12LKXI	121	0	168	30	0
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Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free) 1 records

Sum 30 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
LQ36AAAAAN	MB	093706	R1	CY8CTMA300DES-36LQXI	121	0	168	80	0
LQ36AAAAAN	MB	093706	R1	CY8CTMA300DES-36LQXI	121	0	288	80	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
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	121	0	168	29	0
LQ32AFP DGL	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	121	0	168	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	121	0	168	30	0
LQ24ADAAGL	CA	MR101056	R1A	CY8C20396A-24LQXI	121	0	168	29	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
LQ36AAAAAN	M	MR102063	R1	CG7269AMT	121	0	168	30	0
LQ36AAAAAN	M	MR102063	R1	CG7269AMT	121	0	288	30	0
LQ32EPDAGL	RA	MR103013	R1	CY8C20446-24LQXI	121	0	168	30	0
LQ32EPDAGL	RA	MR103013	R1	CY8C20446-24LQXI	121	0	288	30	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) 44 records



Sum **2786 0**

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

LG16ADAAAL	CA	100303	R1	CY7C64315-16LKXC	121	0	168	80	0
LG16AAAAL	M	MR094028	R1	CG7216AM	121	0	168	30	0
LG16AAAAL	M	MR101040	R1A	CG7246AM	121	0	168	30	0
LG16AAAAL	M	MR101040	R1A	CG7246AM	121	0	288	29	0

Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free) **4 records**

Sum **169 0**

QFN (Punch Type, Pb-Free)

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
LY40CGAGR	L	MR102044	R1	CYRF69213-40LFXC	121	0	168	30	0
LY40CGAGR	L	MR102044	R1	CYRF69213-40LFXC	121	0	288	30	0
LY68AGABGL	L	MR102048	R1	CS6656AAT	121	0	168	30	0
LY68AGABGL	L	MR102048	R1	CS6656AAT	121	0	288	30	0
LY68AGAAGL	L	MR103043	R1	CS6656AAT	121	0	168	30	0
LY68AGAAGL	L	MR103043	R1	CS6656AAT	121	0	288	30	0

Summary for Package Family: QFN (Punch Type, Pb-Free) **11 records**

Sum **329 0**

QFN (Saw Type, Pb-free)

LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	121	0	168	80	0
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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
LT48BAAAAAN	A	100101	R1	CY8CTMA300EES5-48LTXI	121	0	168	80	0
LT48BAAAAAN	A	100101	R1	CY8CTMA300EES5-48LTXI	121	0	288	80	0
LT48BAAAAAN	MB	100101	R2	CY8CTMA300EES5-48LTXI	121	0	168	80	0
LT48BAAAAAN	MB	100101	R2	CY8CTMA300EES5-48LTXI	121	0	288	79	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	121	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
LT56BDAAGL	AE	MR103052	R1	CY7C64215-56LTXC	121	0	168	30	0
LT56BDAAGL	AE	MR103052	R1	CY7C64215-56LTXC	121	0	288	30	0

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

Sum 1048 0

QSOP (Pb-Free)

SQ2414ABGN	R	MR101024	R1	CY7C63743C-QXC	121	0	168	30	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	121	0	168	30	0
SQ2414ABGN	R	MR102009	R1	CY7C63743C-QXC	121	0	288	30	0



Summary for Package Family: QSOP (Pb-Free)

3 records

Sum 90 0

SNC (Pb-Free)

SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	121	0	96	30	0
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Summary for Package Family: SNC (Pb-Free)

1 records

Sum 30 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
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	121	0	168	30	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	121	0	168	30	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	121	0	288	30	0
VZ32314BLL	R	MR102033	R1	CY7C1018DV33-10VXI	121	0	168	30	0
VZ32314BLL	R	MR102033	R1	CY7C1018DV33-10VXI	121	0	288	30	0
VZ2439ABGS	X	NR093006	R3	CY7C128A-20VXC	121	0	168	25	0

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

10 records

Sum 485 0

SOIC (Pb-Free)

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
SZ815PAFGN	RA	MR102016	R1	CY2305SXI-1HT	121	0	168	30	0
SZ815PAFGN	RA	MR102016	R1	CY2305SXI-1HT	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
SZ1615DGN	M	MR102049	R1	CG7192AM	121	0	168	30	0
SZ1615DGN	M	MR102049	R1	CG7192AM	121	0	288	30	0
SZ1615FAL	T	MR102055	R1	CY7C63803-SXC	121	0	168	30	0
SZ1615FAL	T	MR102055	R1	CY7C63803-SXC	121	0	288	30	0
SZ32457LN	R	MR103008	R1	CY62128ELL-45SXA	121	0	96	30	0
SZ32457LN	R	MR103008	R1	CY62128ELL-45SXA	121	0	168	30	0
SZ32457LN	R	MR103008	R1	CY62128ELL-45SXA	121	0	288	30	0

Summary for Package Family: SOIC (Pb-Free) 22 records

Sum 660 0

SSOP (Pb-Free)

SP282ABAGN	RA	092701	R1	CY8C22345-12PVXE	121	0	96	80	0
SP282ABAGN	RA	092701	R1	CY8C22345-12PVXE	121	0	168	80	0
SP282ABAGN	RA	092701	R2	CY8C22345-12PVXE	121	0	96	80	0
SP282ABAGN	RA	092701	R2	CY8C22345-12PVXE	121	0	168	80	0
SP282ABAGN	RA	092701	R3	CY8C22345-12PVXE	121	0	96	80	0

SP282ABAGN	RA	092701	R3	CY8C22345-12PVXE	121	0	168	80	0
SP483JBALL	R	093807	R1	CY8C29666-12PVXE	121	0	96	85	0
SP483JBALL	R	093807	R1	CY8C29666-12PVXE	121	0	168	85	0
SP483JBALL	R	093807	R2	CY8C29666-12PVXE	121	0	96	85	0
SP483JBALL	R	093807	R2	CY8C29666-12PVXE	121	0	168	85	0
SP483JBALL	R	093807	R3	CY8C29666-12PVXE	121	0	96	84	0
SP483JBALL	R	093807	R3	CY8C29666-12PVXE	121	0	168	84	0
SP563GAAGL	R	101205	R1	CY8C28000-24PVXI	121	0	168	80	0
SP563GAAGL	R	101205	R1	CY8C28000-24PVXI	121	0	288	80	0
SP282ABAGN	RA	102301	R1C	CY8C22345-12PVXE	121	0	96	80	0
SP282ABAGN	RA	102301	R1C	CY8C22345-12PVXE	121	0	168	80	0
SP282ABAGN	RA	102301	R2	CY8C22345-12PVXE	121	0	96	80	0
SP282ABAGN	RA	102301	R2	CY8C22345-12PVXE	121	0	168	80	0
SP282ABAGN	RA	102301	R3	CY8C22345-12PVXE	121	0	96	80	0
SP282ABAGN	RA	102301	R3	CY8C22345-12PVXE	121	0	168	80	0
SP483ACGAN	R	102306	R1	CY8C20546-24PVXI	121	0	168	90	0
SP483ACGAN	R	102306	R1	CY8C20546-24PVXI	121	0	288	85	0
SP483ACGAN	R	102306	R2	CY8C20546-24PVXI	121	0	168	90	0
SP483ACGAN	R	102306	R2	CY8C20546-24PVXI	121	0	288	85	0
SP483ACGAN	R	102306	R3	CY8C20546-24PVXI	121	0	168	90	0
SP483ACGAN	R	102306	R3	CY8C20546-24PVXI	121	0	288	85	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	96	30	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	121	0	168	30	0



SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	121	0	168	30	0
SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	121	0	168	30	0
SP282ABAGN	RA	MR102008	R1	8C215345AK-**RASPI	121	0	168	30	0
SP282ABAGN	RA	MR102008	R1	8C215345AK-**RASPI	121	0	288	30	0
SP483ACGAN	R	MR102025	R1	CY8CTST200-48PVXI	121	0	168	30	0
SP483ACGAN	R	MR102025	R1	CY8CTST200-48PVXI	121	0	288	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	121	0	168	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	121	0	288	30	0
SP483ACGAN	R	MR103028	R1	CY8C20546A-24PVXI	121	0	168	30	0
SP483ACGAN	R	MR103028	R1	CY8C20546A-24PVXI	121	0	288	30	0

Summary for Package Family: SSOP (Pb-Free) 40 records

Sum 2572 0

TQFP

A32LXGXB	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
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	121	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
AZ32GXGAN	G	MR102032	R1	CY29940AXCT	121	0	168	30	0
AZ32GXGAN	G	MR102032	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
AZ100AGAL	G	MR102065	R1	CY7C008V-25AXC	121	0	168	30	0
AZ100AGAL	G	MR102065	R1	CY7C008V-25AXC	121	0	288	30	0

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

Sum 646 0

TSOP (Pb-free)

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	96	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXA	121	0	168	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXA	121	0	288	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
ZT28R4BGL	R	MR102053	R1	CY7C1399BNL-12ZXCT	121	0	168	29	0



ZT28R4BGL	R	MR102053	R1	CY7C1399BNL-12ZXCT	121	0	288	29	0
ZT32RAEDLN	RA	MR103003	R1	CY62128EV30LL-45ZXI	121	0	168	30	0
ZT32RAEDLN	RA	MR103003	R1	CY62128EV30LL-45ZXI	121	0	288	28	0
ZT32RABALL	T	MR103056	R1	CY62138FV30LL-45ZXI	121	0	168	29	0
ZT32RABALL	T	MR103056	R1	CY62138FV30LL-45ZXI	121	0	288	29	0

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

Sum 473 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
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	121	0	168	29	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	121	0	288	29	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	121	0	288	30	0
ZB32RHBALN	R	MR103006	R1	CY62138FV30LL-45ZAXI	121	0	168	30	0
ZB32RHBALN	R	MR103006	R1	CY62138FV30LL-45ZAXI	121	0	288	30	0
ZB32RKALL	T	MR103025	R1	CG7086AM	121	0	168	30	0
ZB32RKALL	T	MR103025	R1	CG7086AM	121	0	288	30	0

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

Sum 268 0

TSOP II (Pb-Free)

ZW54CABLR	G	093403	R1	7C1408B7CC	121	0	168	77	0
ZW54CABLR	G	093403	R3	7C1408B7CC	121	0	168	77	0
ZW324FBGL	T	101602	R1	7A1319GC	121	0	96	84	0
ZW324FBGL	T	101602	R1	7A1319GC	121	0	168	84	0
ZW324FBGL	T	101602	R2	7A1319GC-	121	0	96	85	0

ZW324FBGL	T	101602	R2	7A1319GC-	121	0	168	85	0
ZW324FBGL	T	101602	R3	7A1319GC	121	0	96	85	0
ZW324FBGL	T	101602	R3	7A1319GC	121	0	168	85	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	121	0	96	30	0
ZW444AHLL	R	MR101038	R1A	CY62128EV30LL-55ZSXE	121	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
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
ZW444AMLN	R	MR102040	R1	CY62146ELL-45ZSXA	121	0	96	30	0
ZW444AMLN	R	MR102040	R1	CY62146ELL-45ZSXA	121	0	168	30	0
ZW444AMLN	R	MR102040	R1	CY62146ELL-45ZSXA	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	MR103034	R1	CY7C1061AV33-10ZXC	121	0	168	28	0
ZW544AALL	G	MR103034	R1	CY7C1061AV33-10ZXC	121	0	288	28	0
ZW544AALL	G	RR093012	R1	CY7C1069AV33-10ZXC	121	0	168	25	0
ZW544AALL	G	RR093012	R2	CY7C1069AV33-10ZXT	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)

29 records



Sum **1272** **0**

TSSOP

Z2412XAGB	M	MR102017	R1	W232-10XT	121	0	168	30	0
Z2412XAGB	M	MR102017	R1	W232-10XT	121	0	288	30	0

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

Sum **60** **0**

TSSOP (Pb-Free)

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) **7** **records**

Sum **208** **0**

VFBGA (0.75-0.8, 0.3mm)

BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	121	0	168	30	0
BV48BEABLE	G	MR102018	R1	CY62146DV30LL-55BVI	121	0	168	30	0
BV48BEABLE	G	MR102018	R1	CY62146DV30LL-55BVI	121	0	288	30	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	121	0	168	30	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	121	0	288	30	0

Summary for Package Family: VFBGA (0.75-0.8, 0.3mm) **5** **records**

Sum **150** **0**

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

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
BZ48ATALL	RA	MR103002	R1	CY62157DV30LL-70BVXIT	121	0	168	30	0
BZ48ATALL	RA	MR103002	R1	CY62157DV30LL-70BVXIT	121	0	288	30	0
BZ100BABLL	RA	MR103020	R1	CYDMX256A16-65BVXI	121	0	168	29	0
BZ100BABLL	RA	MR103020	R1	CYDMX256A16-65BVXI	121	0	288	29	0



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

Sum 740 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)											
BK48HALLL	G	092602	R4	7C1408B6BC	150/-65	0	1000	78	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	1000	76	0		
BK48JAAALL	G	094304	R2	CY7C1071DV33	150/-65	0	2000	37	0		
BK48JAAALL	G	094304	R3	CY7C1071DV33	150/-65	0	500	77	0		
BK48JAAALL	G	094304	R3	CY7C1071DV33	150/-65	0	1000	77	0		
BK48JAAALL	G	094304	R3	CY7C1071DV33	150/-65	0	2000	36	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	CY7C1071DV33	150/-65	0	500	77	0		
BK48JAAALL	G	095301	R3	CY7C1071DV33	150/-65	0	1000	77	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		
BK48DJALL	G	MR094034	R1	CY62177DV30LL-55BAXI	150/-65	0	500	29	0		
BK48HAGLL	G	MR102064	R1	CY14B104L-BA458XC	150/-65	0	500	30	0		
BK48HAGLL	G	MR102064	R1	CY14B104L-BA458XC	150/-65	0	1000	30	0		

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

20 records

Sum 1214 0

FBGA (1.0-1.27)

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		
BB165GAALE	RA	101704	R3	7C1545KO	150/-65	0	500	77	0		
BB165GAALE	RA	101704	R3	7C1545KO	150/-65	0	1000	77	0		
BB165GAALE	RA	102608	R3B	CY7C15632KV18	150/-65	0	500	77	0		
BB165GAALE	RA	102608	R3B	CY7C15632KV18	150/-65	0	1000	76	0		
BB165REALE	RA	102608	R6	CY7C15632KV18	150/-65	0	500	69	0		
BB165REALE	RA	102608	R6	CY7C15632KV18	150/-65	0	1000	68	0		
BB165GAALE	RA	102608	R8B	7C1545KO-	150/-65	0	500	77	0		
BB165GAALE	RA	102608	R8B	7C1545KO-	150/-65	0	1000	77	0		
BB165AVLE	RA	AR0950018	R1	CY7C1313TV18-250BZC	150/-65	0	100	17	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	AR0952018	R1	CY7C1312BV18-167BZC	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
BB165BILE	RA	AR1001018	R1	7C1414YC-**RABBC	150/-65	0	100	19	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
BB165AVLE	RA	AR1006018	R1	CY7C1314BV18-200BZC	150/-65	0	100	16	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	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
BB165GAALE	RA	MR102046	R1	CY7C1514KV18-250BZI	150/-65	0	500	30	0
BB165GAALE	RA	MR102046	R1	CY7C1514KV18-250BZI	150/-65	0	1000	27	0
BB165BUALE	G	MR102047	R1	CY7C1514KV18-300BZI	150/-65	0	500	30	0
BB165BUALE	G	MR102047	R1	CY7C1514KV18-300BZI	150/-65	0	1000	29	0
BB165AVLE	RA	MR103021	R1	CY7C1305TV25-167BZC	150/-65	0	500	29	0
BB165AALE	G	RR101027	R1	CY7C1412AV18-250BZC	150/-65	0	300	78	0
BB165AALE	G	RR101027	R1	CY7C1412AV18-250BZC	150/-65	0	500	78	0
BB165AALE	G	RR101027	R1	CY7C1412AV18-250BZC	150/-65	0	1000	77	0



Summary for Package Family: FBGA (1.0-1.27)

45 records

Sum **2078 61**

FBGA (1.0-1.27, Pb-free)

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
BW165GAALL	RA	101704	R1	7C11681KO	150/-65	0	500	76	0
BW165GAALL	RA	101704	R1	7C11681KO	150/-65	0	1000	76	0
BW165RBALL	RA	101704	R2	7C11501KO	150/-65	0	500	76	0
BW165RBALL	RA	101704	R2	7C11501KO	150/-65	0	1000	76	0
BW165GAALL	RA	102608	R4B	7C11681KO	150/-65	0	500	76	0
BW165GAALL	RA	102608	R4B	7C11681KO	150/-65	0	1000	76	0
BW165RBALL	RA	102608	R7B	7C11501KO	150/-65	0	500	76	0
BW165RBALL	RA	102608	R7B	7C11501KO	150/-65	0	1000	76	0
BW165ANLL	G	RR101027	R2	CY7C1515JV18-300BZXC	150/-65	0	300	71	0
BW165ANLL	G	RR101027	R2	CY7C1515JV18-300BZXC	150/-65	0	500	71	0
BW165ANLL	G	RR101027	R2	CY7C1515JV18-300BZXC	150/-65	0	1000	71	0

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

15 records

Sum **1125 0**

FLIPCHIP CSP (Pb-Free)

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	125/-55	0	500	79	0
FN49ABAAAL	AU	100302	R3	CY8CTMA300EES-49FNXI	125/-55	0	1000	79	0
FN30	AU	100504	R5	8F20746A	125/-55	0	500	83	0
FN30	AU	100504	R5	8F20746A	125/-55	0	1000	77	0
FN30	AU	100504	R6	8F20746A	125/-55	0	500	82	0
FN30	AU	100504	R6	8F20746A	125/-55	0	1000	78	0
FN30	AU	100504	R7	8F20746A	125/-55	0	500	79	0
FN30	AU	100504	R7	8F20746A	125/-55	0	1000	79	0
FN30	AU	100504	R8	8F20746A	125/-55	0	500	67	0
FN30	AU	100504	R8	8F20746A	125/-55	0	1000	66	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
FN30BGAAAL	AU	100806	R2	CY8C20746	125/-55	0	500	89	0
FN30BGAAAL	AU	100806	R2	CY8C20746	125/-55	0	1000	87	0
FN30	AU	101601	R1	8F20746A	125/-55	0	500	83	0
FN30	AU	101601	R1	8F20746A	125/-55	0	1000	77	0
FN30	AU	101601	R2	8F20746A	125/-55	0	500	82	0
FN30	AU	101601	R2	8F20746A	125/-55	0	1000	78	0
FN30	AU	101601	R3	8F20746A	125/-55	0	500	79	0



FN30	AU	101601	R3	8F20746A	125/-55	0	1000	79	0
FN30	AU	101601	R4	8F20746A	125/-55	0	500	67	0
FN30	AU	101601	R4	8F20746A	125/-55	0	1000	66	0

Summary for Package Family: FLIPCHIP CSP (Pb-Free) 30 records

Sum 2324 0

PBGA (1.27)

BG119SALE	G	MR093058	R1	CY7C1354C-166BGC	150/-65		1000	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	150/-65		500	30	0
BG119ADALE	AT	MR102056	R1	CY7C1361C-100BGC	150/-65		1000	30	0
BG119QALE	G	MR102066	R1	CY7C1347S-166BGC	150/-65		500	30	0
BG119QALE	G	MR102066	R1	CY7C1347S-166BGC	150/-65		1000	29	0

Summary for Package Family: PBGA (1.27) 5 records

Sum 149 0

PBGA (Cavity/Heat Sink, Pb-free)

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

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

Sum 90 0

PDIP (Pb-Free)

PZ243AAAGN	X	MR101042	R1	CY7C63743C-PXC	150/-65		500	30	0
PZ243AAAGN	X	MR101042	R1	CY7C63743C-PXC	150/-65		1000	30	0
PZ183DBGN	RA	MR102061	R1	CY7C63813-PXC	150/-65		500	30	0
PZ183DBGN	RA	MR102061	R1	CY7C63813-PXC	150/-65		1000	30	0



PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	150/-65	500	30	0
PZ243AAAGN	X	MR102062	R1	CY7C63743C-PXC	150/-65	1000	30	0
PZ183DPBGN	RA	MR103005	R1	CY7C63723C-PXC	150/-65	500	30	0
PZ183DPBGN	RA	MR103005	R1	CY7C63723C-PXC	150/-65	1000	29	0

Summary for Package Family: PDIP (Pb-Free)

8 records

Sum 239 0

PLCC

J28SEGAGB	M	MR101008	R1	CY7B923-JC	150/-65	500	30	0
J28SEGAGB	M	MR101008	R1	CY7B923-JC	150/-65	1000	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	150/-65	500	30	0
J32RBGAAGB	X	MR102030	R1	CY7B991V-5JI	150/-65	1000	30	0
J32RBGAAGB	X	MR103058	R1	CY7B991-2JCT	150/-65	500	30	0

Summary for Package Family: PLCC

5 records

Sum 150 0

PLCC (Pb-Free)

JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	150/-65	500	29	0
JZ52SFGAN	M	MR094046	R1	CY7C136-25JXCT	150/-65	1000	29	0
JZ52SFGAN	M	MR103026	R1	CY7C136-25JXC	150/-65	500	30	0

Summary for Package Family: PLCC (Pb-Free)

3 records

Sum 88 0

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

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



Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free) 3 records

Sum							91	0
QFN (0.6mm, Saw Type, Pb-Free)								
LQ32EPDAGL	RA	090706	R2	CY8C204665-24LQXIES	150/-65	500	80	0
LQ32EPDAGL	RA	090706	R2	CY8C204665-24LQXIES	150/-65	1000	80	0
LQ32EPDAGL	RA	090706	R3	CY8C204665-24LQXIES	150/-65	500	80	0
LQ24AEAAGL	MB	093002	R1	CY8C20366-24LQXI	150/-65	1000	80	0
LQ24AEAAGL	MB	093002	R2	CY8C20366-24LQXI	150/-65	1000	79	0
LQ24AEAAGL	MB	093002	R3	CY8C20366-24LQXI	150/-65	1000	80	0
LQ36AAAAAN	MB	093706	R1	CY8CTMA300DES-36LQXI	150/-65	500	78	0
LQ36AAAAAN	MB	093706	R2	CY8CTMA300DES-36LQXI	150/-65	500	80	0
LQ36AAAAAN	MB	093706	R2	CY8CTMA300DES-36LQXI	150/-65	1000	78	0
LQ36ABAAAL	RA	101102-A	R1	CY8CTMA300EES-36LQXI	150/-65	500	80	0
LQ36ABAAAL	RA	101102-A	R1	CY8CTMA300EES-36LQXI	150/-65	1000	80	0
LQ36ABAAAL	RA	101102-A	R2	CY8CTMA300EES-36LQXI	150/-65	500	80	0
LQ36ABAAAL	RA	101102-A	R2	CY8CTMA300EES-36LQXI	150/-65	1000	80	0
LQ36ABAAAL	RA	101102-A	R3	CY8CTMA300EES-36LQXI	150/-65	500	80	0
LQ36ABAAAL	RA	101102-A	R3	CY8CTMA300EES-36LQXI	150/-65	1000	80	0
LQ24AAAAAL	RA	AR0930015	R1	CY8C20324-12LQXI	150/-65	1000	18	0
LQ32EPDAGL	RA	AR0931017	R1	CY8CTMG200-32LQXIT	150/-65	500	18	0
LQ32AFPDGL	RA	AR1007017	R1	CY8C20434-12LQXIT	150/-65	100	20	0
LQ32AFPDGL	RA	AR1007017	R1	CY8C20434-12LQXIT	150/-65	500	20	0
LQ32AFPDGL	RA	AR1007017	R1	CY8C20434-12LQXIT	150/-65	1000	20	0
LQ32AFPDGL	RA	AR1009024	R1	CP7203BTT	150/-65	500	9	0

LQ32AFPDGL	RA	AR1009024	R1	CP7203BTT	150/-65	1000	9	0
LQ32AFPDGL	RA	AR1009030	R1	CY8C20424-12LQXI	150/-65	500	9	0
LQ32AFPDGL	RA	AR1009030	R1	CY8C20424-12LQXI	150/-65	1000	6	0
LQ32AFPDGL	RA	AR1009030	R1	CY8C20424-12LQXI	150/-65	1000	3	0
LQ24ABAAL	AT	MR093047	R1	CY8C20324-12LQXI	150/-65	1000	29	0
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	150/-65	500	30	0
LQ24AAAAAL	RA	MR094012	R1	CP7126ATT	150/-65	1000	30	0
LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	150/-65	500	29	0
LQ32AFPDGL	RA	MR094027	R1	CY8C20434-12LQXI	150/-65	1000	29	0
LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	150/-65	500	30	0
LQ32DAGLL	CA	MR094035	R1	CY8C20466-24LQXI	150/-65	1000	30	0
LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	150/-65	500	30	0
LQ24ADAAGL	CA	MR094043	R1	CY8CTST200-24LQXI	150/-65	1000	30	0
LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	150/-65	500	30	0
LQ24AAAAAL	RA	MR101016	R1	CP7229ATT	150/-65	1000	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	150/-65	500	30	0
LQ24ABAAL	AT	MR101028	R1	CP7140AT	150/-65	1000	30	0
LQ24ADAAGL	CA	MR101056	R1	CG7153CM	150/-65	500	30	0
LQ24ADAAGL	CA	MR101056	R1	CG7153CM	150/-65	1000	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	150/-65	500	30	0
LQ32EPDAGL	RA	MR102007	R1	CY8CTMG200-32LQXI	150/-65	1000	27	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	150/-65	500	30	0
LQ24AAAAAL	RA	MR102011	R1	CY8CTST200-24LQXIT	150/-65	1000	30	0
LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	150/-65	500	30	0

LQ24ADAAGL	CA	MR102028	R1	CY8CTST200A-24LQXI	150/-65	1000	30	0
LQ36AAAAAN	M	MR102063	R1	CG7269AMT	150/-65	500	30	0
LQ36AAAAAN	M	MR102063	R1	CG7269AMT	150/-65	1000	30	0
LQ32EPDAGL	RA	MR103013	R1	CY8C20446-24LQXI	150/-65	500	30	0
LQ24ADAAGL	CA	NR093002	R1	CY8CTST200-24LQXIT	150/-65	1000	72	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	150/-65	500	77	0
LQ24ADAAGL	CA	NR093002	R2	CY8CTST200-24LQXIT	150/-65	1000	77	0
LQ24AAAAAL	RA	NR093004	R1	CY8C20324-12LQXI	150/-65	500	24	0
LQ24AAAAAL	RA	NR093004	R1	CY8C20324-12LQXI	150/-65	1000	24	0
LQ24AAAAAL	RA	NR093004	R2	CY8C20334-12LQXIT	150/-65	500	25	0
LQ24AAAAAL	RA	NR093004	R2	CY8C20334-12LQXIT	150/-65	1000	25	0
LQ24AAAAAL	RA	NR093004	R3	CY8C20324-12LQXI	150/-65	500	25	0
LQ24AAAAAL	RA	NR093004	R3	CY8C20324-12LQXI	150/-65	1000	24	0
LQ24AAAAAL	RA	NR093004	R4	CY8C20334-12LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093004	R4	CY8C20334-12LQXIT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093004	R5	CY8C20334-12LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093004	R5	CY8C20334-12LQXIT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093004	R6	CY8C20334-12LQXI	150/-65	500	15	0
LQ24AAAAAL	RA	NR093004	R6	CY8C20334-12LQXI	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R1	CY8C20334-12LQXIT	150/-65	500	24	0
LQ24AAAAAL	RA	NR093005	R1	CY8C20334-12LQXIT	150/-65	1000	24	0
LQ24AAAAAL	RA	NR093005	R2	CY8C20334-12LQXIT	150/-65	500	25	0
LQ24AAAAAL	RA	NR093005	R2	CY8C20334-12LQXIT	150/-65	1000	25	0
LQ24AAAAAL	RA	NR093005	R3	CY8C20334-12LQXIT	150/-65	500	25	0

LQ24AAAAAL	RA	NR093005	R3	CY8C20334-12LQXIT	150/-65	1000	25	0
LQ24AAAAAL	RA	NR093005	R4	CY8C20334-12LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R4	CY8C20334-12LQXIT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R5	CY8C20334-12LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R5	CY8C20334-12LQXIT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R6	CY8C20324-12LQXI	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R6	CY8C20324-12LQXI	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R7	CY8C20334-12LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R7	CY8C20334-12LQXIT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R8	CP7126ATT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R8	CP7126ATT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R9	CP7126ATT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R9	CP7126ATT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R10	CP7126ATT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R10	CP7126ATT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R11	CY8C20324-12LQXI	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R11	CY8C20324-12LQXI	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R12	CP7126ATT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R12	CP7126ATT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093005	R13	CY8C20324-12LQXI	150/-65	500	15	0
LQ24AAAAAL	RA	NR093005	R13	CY8C20324-12LQXI	150/-65	1000	13	0
LQ24AAAAAL	RA	NR093010	R1	CY8CTST200-24LQXIT	150/-65	500	29	0
LQ24AAAAAL	RA	NR093010	R1	CY8CTST200-24LQXIT	150/-65	1000	29	0
LQ24AAAAAL	RA	NR093010	R2	CY8C20346-24LQXIT	150/-65	500	30	0

LQ24AAAAAL	RA	NR093010	R2	CY8C20346-24LQXIT	150/-65	1000	29	0
LQ24AAAAAL	RA	NR093010	R3	CY8CTST200-24LQXIT	150/-65	500	30	0
LQ24AAAAAL	RA	NR093010	R3	CY8CTST200-24LQXIT	150/-65	1000	30	0
LQ24AAAAAL	RA	NR093010	R5	CY8CTST200-24LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093010	R5	CY8CTST200-24LQXIT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093010	R6	CY8CTST200-24LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093010	R6	CY8CTST200-24LQXIT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093010	R7	CY8CTST200-24LQXIT	150/-65	500	13	0
LQ24AAAAAL	RA	NR093010	R7	CY8CTST200-24LQXIT	150/-65	1000	12	0
LQ24AAAAAL	RA	NR093010	R8	CY8CTST200-24LQXI	150/-65	500	11	0
LQ24AAAAAL	RA	NR093010	R8	CY8CTST200-24LQXI	150/-65	1000	10	0
LQ24AAAAAL	RA	NR093010	R9	CY8CTST200-24LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093010	R9	CY8CTST200-24LQXIT	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093010	R10	CY8CTST200-24LQXIT	150/-65	500	15	0
LQ24AAAAAL	RA	NR093010	R10	CY8CTST200-24LQXIT	150/-65	1000	13	0
LQ24AAAAAL	RA	NR093010	R11	CY8CTST200-24LQXI	150/-65	500	15	0
LQ24AAAAAL	RA	NR093010	R11	CY8CTST200-24LQXI	150/-65	1000	15	0
LQ24AAAAAL	RA	NR093010	R11	CY8CTST200-24LQXI	150/-65	1000	7	0
LQ24AAAAAL	RA	NR093010	R12	CY8CTST200-24LQXIT	150/-65	500	14	0
LQ24AAAAAL	RA	NR093010	R12	CY8CTST200-24LQXIT	150/-65	1000	12	0
LQ24AAAAAL	RA	NR093010	R13	CY8CTST200-24LQXI	150/-65	500	14	0
LQ24AAAAAL	RA	NR093010	R13	CY8CTST200-24LQXI	150/-65	1000	3	0
LQ24AAAAAL	RA	NR093010	R13	CY8CTST200-24LQXI	150/-65	1000	10	0
LQ32DAGLL	R	RR092019	R1	CY8C20446-24LQXIT	150/-65	1000	73	0

LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	100	162	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	200	162	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	400	162	0
LQ32DAGLL	CA	RR092023	R1	CY8C20446-24LQXIT	150/-65	500	162	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	100	200	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	200	200	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	400	199	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	400	150	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	500	199	0
LQ32CCAAL	CA	RR092023	R2	CY8C20434-12LQXIKCT	150/-65	500	150	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	100	200	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	200	200	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	400	200	0
LQ32DAGLL	CA	RR092023	R3	CY8C20446-24LQXIT	150/-65	500	200	0
LQ32DAGLL	CA	RR092025	R2	CY8C20446-24LQXIT	150/-65	1000	67	0
LQ32DAGLL	CA	RR092025	R5	CY8CTMG200-32LQXIT	150/-65	1000	80	0
LQ32DAGLL	CA	RR092025	R6	CY8CTMG201-32LQXI	150/-65	1000	80	0
LQ32DAGLL	CA	RR092025	R7	CY8C20446-24LQXIT	150/-65	1000	80	0
LQ36ABAAAL	RA	RR102030	R1	CG7269AMT	150/-65	50	640	0
LQ36ABAAAL	RA	RR102030	R1	CG7269AMT	150/-65	100	640	0

Summary for Package Family: QFN (0.6mm, Saw Type, Pb-Free) 137 records

Sum 7587 0

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

LG16ADAAAL	CA	100303	R1	CY7C64315-16LKXC	150/-65	500	80	0
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LG16ADAAAL	CA	100303	R1	CY7C64315-16LKXC	150/-65	1000	80	0
LG16ADAAAL	CA	100303	R2	CY7C64315-16LKXC	150/-65	500	80	0
LG16ADAAAL	CA	100303	R2	CY7C64315-16LKXC	150/-65	1000	80	0
LG16ADAAAL	CA	100303	R3	CY7C64315-16LKXC	150/-65	500	80	0
LG16ADAAAL	CA	100303	R3	CY7C64315-16LKXC	150/-65	1000	80	0
LG16AAAAL	M	MR093061	R1	CY8C20224-12LKXI	150/-65	1000	29	0
LG16AAAAL	M	MR094028	R1	CG7216AM	150/-65	500	30	0
LG16AAAAL	M	MR094028	R1	CG7216AM	150/-65	1000	30	0
LG16AAAAL	M	MR101040	R1	CY8C20110-LDX2IT	150/-65	500	29	0
LG16AAAAL	M	MR101040	R1	CY8C20110-LDX2IT	150/-65	1000	29	0
LG16	MB	NR101002	R1	CP7194AT	150/-65	500	25	0
LG16	MB	NR101002	R1	CP7194AT	150/-65	1000	25	0
LG16AAAAL	MB	NR101002	R2	CP7194AT	150/-65	500	25	0
LG16AAAAL	MB	NR101002	R2	CP7194AT	150/-65	1000	25	0
LG16AAAAL	MB	NR101002	R3	CY8C20236-24LKXI	150/-65	500	25	0
LG16AAAAL	MB	NR101002	R3	CY8C20236-24LKXI	150/-65	1000	25	0

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

17 records

Sum 777 0

QFN (Punch Type, Pb-Free)

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



LY56DGAGL	L	MR101065	R1	CY8C24794-24LFXIT	150/-65	500	30	0
LY56DGAGL	L	MR101065	R1	CY8C24794-24LFXIT	150/-65	1000	30	0
LY40CGAGR	L	MR102044	R1	CYRF69213-40LFXC	150/-65	500	30	0
LY40CGAGR	L	MR102044	R1	CYRF69213-40LFXC	150/-65	1000	30	0
LY68AGABGL	L	MR102048	R1	CS6656AAT	150/-65	500	30	0
LY68AGABGL	L	MR102048	R1	CS6656AAT	150/-65	1000	30	0
LY68AGAAGL	L	MR103043	R1	CS6656AAT	150/-65	500	30	0

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

Sum 354 0

QFN (Saw Type, Pb-free)

LT32BAABGL	RA	093308	R1	CY8C21434-24LTXI	150/-65	500	76	0
LT32BAABGL	RA	093308	R4	CY8C21434-24LTXI	150/-65	500	75	0
LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	150/-65	500	76	0
LT40AAABGL	RA	093405	R1	CYRF6936B-40LTXC	150/-65	1000	76	0
LT40AAABGL	RA	093405	R2	CYRF6936B-40LTXC	150/-65	500	77	0
LT40AAABGL	RA	093405	R2	CYRF6936B-40LTXC	150/-65	1000	77	0
LT40AAABGL	RA	093405	R3	CYRF6936B-40LTXC	150/-65	500	77	0
LT40AAABGL	RA	093405	R3	CYRF6936B-40LTXC	150/-65	1000	77	0
LT40AAABGL	RA	093405	R4	CYRF6936B-40LTXC	150/-65	500	77	0
LT40AAABGL	RA	093405	R4	CYRF6936B-40LTXC	150/-65	1000	77	0
LT32BAABGL	RA	093803	R1	CY8C24423A5-24LTXIKA	150/-65	500	80	0
LT32BAABGL	RA	093803	R1	CY8C24423A5-24LTXIKA	150/-65	1000	80	0
LT32BAABGL	RA	093803	R2	CY8C24423A5-24LTXIKA	150/-65	500	80	0
LT32BAABGL	RA	093803	R2	CY8C24423A5-24LTXIKA	150/-65	1000	80	0

LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150/-65	500	80	0
LT32BAABGL	RA	093803	R3	CY8C24423A5-24LTXIKA	150/-65	1000	80	0
LT48BBAAAL	RA	095005	R3	CY8CTMA301D-48LTXI	150/-65	500	77	0
LT48BBAAAL	RA	095005	R3	CY8CTMA301D-48LTXI	150/-65	1000	77	0
LT48BAAAAAN	MB	100101	R1A	CY8CTMA300EES5-48LTXI	150/-65	500	80	0
LT48BAAAAAN	MB	100101	R1B	CY8CTMA300EES5-48LTXI	150/-65	500	80	0
LT48BAAAAAN	MB	100101	R2	CY8CTMA300EES5-48LTXI	150/-65	500	80	0
LT48BAAAAAN	MB	100102	R1	CY8CTMA300EES5-48LTXI	150/-65	500	80	0
LT48BAAAAAN	MB	100102	R1	CY8CTMA300EES5-48LTXI	150/-65	1000	80	0
LT48BAAAAAN	M	100102	R3	CY8CTMA300DES-48LTXI	150/-65	500	80	0
LT32BAABGL	RA	AR0930014	R1	CY8C21434-24LTXIT	150/-65	500	19	0
LT32BAABGL	RA	AR0933017	R1	CY7C63833-LTXCT	150/-65	1000	19	0
LT32BABCGL	RA	AR1028017	R1	CG7297AMT	150/-65	500	20	0
LT32BABCGL	RA	AR1030014	R1	CG7297AMT	150/-65	500	20	0
LT32BABCGL	RA	AR1030017	R1	CG7297AMT	150/-65	500	18	0
LT32BBACGL	AE	MR094061	R1	CY7C63833-LTXC	150/-65	1000	30	0
LT32BAABGL	RA	MR101034	R1	CP6688DMT	150/-65	500	30	0
LT32BAABGL	RA	MR101034	R1	CP6688DMT	150/-65	1000	29	0
LT32BAAAGL	CA	MR101041	R1	CG7032AA	150/-65	500	30	0
LT32BAAAGL	CA	MR101041	R1	CG7032AA	150/-65	1000	30	0
LT48ABBAAL	MB	MR101063	R1	CY8CTMG201A-48LTXI	150/-65	500	30	0
LT48ABBAAL	MB	MR101063	R1	CY8CTMG201A-48LTXI	150/-65	1000	30	0
LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	150/-65	500	30	0
LT48ABAAGR	CA	MR102027	R1	CY8CTMG200A-48LTXI	150/-65	1000	30	0



LT32BAAAGL	CA	MR102039	R1	CY8C21434-24LTXIT	150/-65	500	30	0
LT32BAAAGL	CA	MR102039	R1	CY8C21434-24LTXIT	150/-65	1000	30	0
LT56BDAAGL	AE	MR103052	R1	CY7C64215-56LTXC	150/-65	500	30	0
LT48ABAAGR	CA	NR093002	R3	CY8CTMG200-48LTXI	150/-65	500	77	0
LT48ABAAGR	CA	NR093002	R3	CY8CTMG200-48LTXI	150/-65	1000	77	0
LT40ACAAGL	AE	RR102002	R2	CS7258AA	150/-65	500	79	0
LT40ACAAGL	AE	RR102002	R2	CS7258AA	150/-65	925	79	0

Summary for Package Family: QFN (Saw Type, Pb-free) 45 records

Sum 2646 0

QSOP (Pb-Free)

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

Summary for Package Family: QSOP (Pb-Free) 5 records

Sum 148 0

SNC (Pb-Free)

SY2831BBLN	R	091302	R2	CY62256NLL-55SNXET	150/-65	1000	80	0
SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	150/-65	500	30	0
SY2831AHN	R	MR094002	R1	CY62256NLL-55SNXET	150/-65	1000	29	0

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

Sum 139 0

SOIC (J-Lead, Pb-Free)



VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	150/-65	300	75	0
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	150/-65	500	75	0
VZ2846AAAN	OP	100807	R1	CY7C106BN-15VC	150/-65	1000	75	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	150/-65	300	80	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	150/-65	500	80	0
VZ2846AAAN	OP	100807	R2	CY7C107BN-15VC	150/-65	1000	80	0
VZ2846AAAN	OP	100807	R3	CY7C107BN-15VC	150/-65	300	78	0
VZ2846AAAN	OP	100807	R3	CY7C107BN-15VC	150/-65	500	78	0
VZ2846AAAN	OP	100807	R3	CY7C107BN-15VC	150/-65	1000	78	0
VZ2846AAAN	OP	100807	R4	CY7C107BN-15VC	150/-65	300	78	0
VZ2846AAAN	OP	100807	R4	CY7C107BN-15VC	150/-65	500	78	0
VZ2846AAAN	OP	100807	R4	CY7C107BN-15VC	150/-65	1000	78	0
VZ2846AAAN	OP	100807	R5	CY7C107BN-15VC	150/-65	300	78	0
VZ2846AAAN	OP	100807	R5	CY7C107BN-15VC	150/-65	500	78	0
VZ2846AAAN	OP	100807	R5	CY7C107BN-15VC	150/-65	1000	78	0
VZ2846AAAN	OP	100807	R6	CY7C107BN-15VC	150/-65	300	78	0
VZ2846AAAN	OP	100807	R6	CY7C107BN-15VC	150/-65	500	78	0
VZ2846AAAN	OP	100807	R6	CY7C107BN-15VC	150/-65	1000	78	0
VZ28313BLN	R	MR093023	R1	CY7C1399BN-12VXCT	150/-65	1000	30	0
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	150/-65	500	30	0
VZ3649BALN	R	MR101012	R1	CY7C1049DV33-10VXI	150/-65	1000	29	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	150/-65	500	30	0
VZ444ACBLN	R	MR102023	R1	CY7C1021D-10VXI	150/-65	1000	30	0
VZ32314BLL	R	MR102033	R1	CY7C1018DV33-10VXI	150/-65	500	30	0



VZ32314BLL	R	MR102033	R1	CY7C1018DV33-10VXI	150/-65	1000	30	0
VZ2439ABGS	X	NR093006	R1	CY7C128A-20VXC	150/-65	1000	25	0
VZ2439ABGS	X	NR093006	R2	CY7C128A-20VXCT	150/-65	1000	25	0
VZ2439ABGS	X	NR093006	R3	CY7C128A-20VXC	150/-65	500	25	0
VZ2439ABGS	X	NR093006	R3	CY7C128A-20VXC	150/-65	1000	25	0
VZ2439ABGS	X	NR093006	R4	CY7C128A-20VXCT	150/-65	1000	15	0
VZ2439ABGS	X	NR093006	R5	CY7C128A-20VXCT	150/-65	500	15	0
VZ2439ABGS	X	NR093006	R5	CY7C128A-20VXCT	150/-65	1000	15	0
VZ2439ABGS	X	NR093006	R6	CY7C128A-20VXC	150/-65	500	30	0
VZ2439ABGS	X	NR093006	R6	CY7C128A-20VXC	150/-65	1000	15	0
VZ2439ABGS	X	NR093006	R7	CY7C128A-20VXCT	150/-65	500	15	0
VZ2439ABGS	X	NR093006	R7	CY7C128A-20VXCT	150/-65	1000	15	0

Summary for Package Family: SOIC (J-Lead, Pb-Free) 36 records

Sum 1830 0

SOIC (Pb-Free)

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



SZ815DAGN	M	AR0939020	R1	CY27020SXCT	150/-65	1000	15	0
SZ815CGAN	M	AR0950020	R1	CY8C24123A-24SXI	150/-65	500	14	0
SZ815CGAN	M	AR0950020	R1	CY8C24123A-24SXI	150/-65	1000	14	0
SZ815DAGN	M	AR1002025	R1	CY2300SXCT	150/-65	100	15	0
SZ815DAGN	M	AR1002025	R1	CY2300SXCT	150/-65	500	15	0
SZ815DAGN	M	AR1002025	R1	CY2300SXCT	150/-65	1000	15	0
SZ183CBGAN	RA	AR1019008	R1	CY7C63723C-SXC	150/-65	500	19	0
SZ815DAGN	M	AR1024021	R1	CY2303SXCT	150/-65	500	15	0
SZ815CGAN	M	AR1028024	R1	CY8C21123-24SXI	150/-65	500	15	0
SZ815CGAN	M	AR1028025	R1	CY8C21123-24SXI	150/-65	500	15	0
SZ815CGAN	M	AR1030024	R1	CY8C21123-24SXI	150/-65	500	15	0
SZ815DAGN	M	MR093056	R1	CY2303SXCT	150/-65	1000	30	0
SZ1615KDGN	RA	MR094006	R1	CY2308SXC-1T	150/-65	500	30	0
SZ1615KDGN	RA	MR094006	R1	CY2308SXC-1T	150/-65	1000	30	0
SZ32457BLN	R	MR094007	R1	CY62128EV30LL-45SXI	150/-65	500	30	0
SZ32457BLN	R	MR094007	R1	CY62128EV30LL-45SXI	150/-65	1000	30	0
SZ1615DGN	M	MR094040	R1	CG7192AM	150/-65	500	30	0
SZ1615DGN	M	MR094040	R1	CG7192AM	150/-65	1000	30	0
SZ1615FAL	T	MR094049	R1	CY2309CSXC-1T	150/-65	500	30	0
SZ1615FAL	T	MR094049	R1	CY2309CSXC-1T	150/-65	1000	30	0
SZ324517BL	R	MR101019	R1	CG6727AMT	150/-65	500	28	0
SZ324517BL	R	MR101019	R1	CG6727AMT	150/-65	1000	28	0
SZ1615KBGN	RA	MR101022	R1	CY2308SXI-2	150/-65	500	30	0
SZ1615KBGN	RA	MR101022	R1	CY2308SXI-2	150/-65	1000	30	0

SZ24315BGN	RA	MR101023	R1	CY7C63743C-SXC	150/-65	500	30	0
SZ24315BGN	RA	MR101023	R1	CY7C63743C-SXC	150/-65	1000	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	150/-65	500	30	0
SZ1615DGN	M	MR101062	R1	CG7192AM	150/-65	1000	30	0
SZ183CBGAN	RA	MR102005	R1	CY7C63723C-SXC	150/-65	500	32	0
SZ183CBGAN	RA	MR102005	R1	CY7C63723C-SXC	150/-65	1000	30	0
SZ815PAFGN	RA	MR102016	R1	CY2305SXI-1HT	150/-65	500	29	0
SZ815PAFGN	RA	MR102016	R1	CY2305SXI-1HT	150/-65	1000	29	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	150/-65	500	30	0
SZ28327BGL	R	MR102024	R1	CY8C27443-24SXI	150/-65	1000	30	0
SZ1615DGN	M	MR102049	R1	CG7192AM	150/-65	500	30	0
SZ1615DGN	M	MR102049	R1	CG7192AM	150/-65	1000	30	0
SZ1615FAL	T	MR102055	R1	CY7C63803-SXC	150/-65	500	30	0
SZ1615FAL	T	MR102055	R1	CY7C63803-SXC	150/-65	1000	30	0
SZ32457LN	R	MR103008	R1	CY62128ELL-45SXA	150/-65	500	30	0
SZ323ACAGS	M	RR101017	R1	STK14C88-3NF35TR	150/-65	100	78	0
SZ323ACAGS	M	RR101017	R2	STK14C88-3NF35TR	150/-65	100	79	0
SZ323ACAGS	M	RR101017	R3	STK14C88-3NF35TR	150/-65	100	77	0
SZ815PABGN	RA	RR102010	R1	CY22381FXC	150/-65	500	80	0
SZ815PABGN	RA	RR102010	R1	CY22381FXC	150/-65	1000	80	0
SZ815PABGN	RA	RR102010	R2	CY22381FXC	150/-65	500	80	0
SZ815PABGN	RA	RR102010	R2	CY22381FXC	150/-65	1000	80	0
SZ815PABGN	RA	RR102010	R3	CY22381FXC	150/-65	500	80	0
SZ815PABGN	RA	RR102010	R3	CY22381FXC	150/-65	1000	80	0



SZ815CGAN	M	RR103003	R7	CY8C24123A-24SXIT	150/-65	100	199	0
SZ815CGAN	M	RR103003	R8	CY8C24123A-24SXIT	150/-65	100	199	0
SZ815KAGN	M	RR103003	R9	CYIFS741BSXBT	150/-65	100	200	0
SZ815CGAN	M	RR103003	R10	CY8C24123A-24SXI	150/-65	100	198	0
SZ815KAGN	M	RR103003	R11	CYIFS782BSXCT	150/-65	100	200	0
SZ815CGAN	M	RR103003	R12	CP7263AT	150/-65	100	200	0

Summary for Package Family: SOIC (Pb-Free)

63 records

Sum 3044 0

SSOP (Pb-Free)

SP282ABAGN	RA	092701	R1	CY8C22345-12PVXE	150/-65	500	80	0
SP282ABAGN	RA	092701	R2	CY8C22345-12PVXE	150/-65	500	80	0
SP282ABAGN	RA	092701	R3	CY8C22345-12PVXE	150/-65	500	80	0
SP563EBGL	R	093001	R1	CY8C22045-24PVXI	150/-65	500	77	0
SP563EBGL	R	093001	R1	CY8C22045-24PVXI	150/-65	1000	77	0
SP563EBGL	R	093001	R2	CY8C22045-24PVXI	150/-65	500	77	0
SP563EBGL	R	093001	R2	CY8C22045-24PVXI	150/-65	1000	77	0
SP563EBGL	R	093001	R3	CY8C22045-24PVXI	150/-65	500	77	0
SP563EBGL	R	093001	R3	CY8C22045-24PVXI	150/-65	1000	77	0
SP483JBALL	R	093807	R2	CY8C29666-12PVXE	150/-65	500	80	0
SP483JBALL	R	093807	R2	CY8C29666-12PVXE	150/-65	1000	80	0
SP483JBALL	R	093807	R3	CY8C29666-12PVXE	150/-65	500	85	0
SP483JBALL	R	093807	R3	CY8C29666-12PVXE	150/-65	1000	85	0
SP483LBALL	R	094502	R2	CY14B101L-SP45XCT	150/-65	500	77	0
SP483LBALL	R	094502	R2	CY14B101L-SP45XCT	150/-65	1000	77	0



SP483LBALL	R	094502	R3	CY14B101L-SP45XCT	150/-65	500	77	0
SP483LBALL	R	094502	R3	CY14B101L-SP45XCT	150/-65	1000	77	0
SP563GAAGL	R	101205	R1	CY8C28000-24PVXI	150/-65	500	80	0
SP563GAAGL	R	101205	R1	CY8C28000-24PVXI	150/-65	1000	80	0
SP563GAAGL	R	101205	R2	CY8C28000-24PVXI	150/-65	500	80	0
SP563GAAGL	R	101205	R2	CY8C28000-24PVXI	150/-65	1000	80	0
SP563GAAGL	R	101205	R3	CY8C28000-24PVXI	150/-65	500	80	0
SP563GAAGL	R	101205	R3	CY8C28000-24PVXI	150/-65	1000	80	0
SP282ABAGN	RA	102301	R1C	CY8C22345-12PVXE	150/-65	500	80	0
SP282ABAGN	RA	102301	R2	CY8C22345-12PVXE	150/-65	500	80	0
SP282ABAGN	RA	102301	R3	CY8C22345-12PVXE	150/-65	500	80	0
SP483ACGAN	R	102306	R1	CY8C20546-24PVXI	150/-65	500	90	0
SP483ACGAN	R	102306	R1	CY8C20546-24PVXI	150/-65	1000	85	0
SP483ACGAN	R	102306	R2	CY8C20546-24PVXI	150/-65	500	90	0
SP483ACGAN	R	102306	R2	CY8C20546-24PVXI	150/-65	1000	85	0
SP483ACGAN	R	102306	R3	CY8C20546-24PVXI	150/-65	500	90	0
SP483ACGAN	R	102306	R3	CY8C20546-24PVXI	150/-65	1000	85	0
SP483EBBAL	R	AR0929003	R1	CY8C29666-24PVXIT	150/-65	1000	19	0
SP483EBBAL	R	AR0930003	R1	CY8C29666-24PVXIT	150/-65	1000	18	0
SP282ABAGN	RA	AR0930013	R1	CY8C27443-24PVXIT	150/-65	1000	20	0
SP483EBBAL	R	AR0931003	R1	CY8C29666-24PVXIT	150/-65	1000	18	0
SP483EBBAL	R	AR0937003	R1	CY8C29666-24PVXI	150/-65	500	20	0
SP483EBBAL	R	AR0937003	R1	CY8C29666-24PVXI	150/-65	1000	20	0
SP282ABAGN	RA	AR0937013	R1	CY8C27443-24PVXI	150/-65	500	20	0



SP282ABAGN	RA	AR0937013	R1	CY8C27443-24PVXI	150/-65	1000	20	0
SP483EBBAL	R	AR0940003	R1	CY8C29666-24PVXIT	150/-65	500	20	0
SP483EBBAL	R	AR0940003	R1	CY8C29666-24PVXIT	150/-65	1000	20	0
SP483EBBAL	R	AR0942003	R1	CY8C29666-24PVXI	150/-65	500	17	0
SP483EBBAL	R	AR0942003	R1	CY8C29666-24PVXI	150/-65	1000	16	0
SP282ABAGN	RA	AR0949013	R1	CY8C27443-24PVXI	150/-65	500	20	0
SP282ABAGN	RA	AR0949013	R1	CY8C27443-24PVXI	150/-65	1000	20	0
SP483EBBAL	R	AR1001003	R1	CY8C27643-24PVXI	150/-65	100	18	0
SP483EBBAL	R	AR1001003	R1	CY8C27643-24PVXI	150/-65	500	16	0
SP483EBBAL	R	AR1001003	R1	CY8C27643-24PVXI	150/-65	1000	16	0
SP282ABAGN	RA	AR1003013	R1	CY8C21534-24PVXIT	150/-65	100	20	0
SP282ABAGN	RA	AR1003013	R1	CY8C21534-24PVXIT	150/-65	500	20	0
SP282ABAGN	RA	AR1003013	R1	CY8C21534-24PVXIT	150/-65	1000	20	0
SP282ABAGN	RA	AR1005013	R1	CY7C64215-28PVXC	150/-65	100	17	0
SP282ABAGN	RA	AR1005013	R1	CY7C64215-28PVXC	150/-65	500	17	0
SP282ABAGN	RA	AR1005013	R1	CY7C64215-28PVXC	150/-65	1000	17	0
SP2822BGL	M	AR1016023	R1	CY8C21534-24PVXAT	150/-65	500	15	0
SP2822BGL	M	AR1016023	R1	CY8C21534-24PVXAT	150/-65	1000	15	0
SP282ABAGN	RA	AR1021013	R1	CY8C24423A-24PVXI	150/-65	500	19	0
SP483EBBAL	R	AR1023003	R1	CY8C29666-24PVXI	150/-65	500	17	0
SP2824HAN	T	MR092070	R2A	CY8C24533-24PVXI	150/-65	500	30	0
SP2824HAN	T	MR092070	R2A	CY8C24533-24PVXI	150/-65	1000	30	0
SP483HAAGR	M	MR093024	R1	CY14B101L-SP45XCT	150/-65	1000	30	0
SP2814HAL	M	MR093052	R1	CS6835AT	150/-65	1000	30	0

SP483EBBAL	R	MR094019	R1	CY8C29666-24PVXIT	150/-65	500	29	0
SP483EBBAL	R	MR094019	R1	CY8C29666-24PVXIT	150/-65	1000	29	0
SP282ABAGN	RA	MR094029	R1	8C215345AK-**RASPI	150/-65	500	30	0
SP282ABAGN	RA	MR094029	R1	8C215345AK-**RASPI	150/-65	1000	30	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150/-65	100	28	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150/-65	500	28	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150/-65	500	2	0
SP2822BGL	M	MR101004	R1	CY8C21534-12PVXET	150/-65	1000	30	0
SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	150/-65	500	30	0
SP282ABAGN	RA	MR101017	R1	CY8C24533-24PVXI	150/-65	1000	30	0
SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	150/-65	500	30	0
SP282ABAGN	RA	MR101021	R1	CY8C24533-24PVXI	150/-65	1000	30	0
SP282ABAGN	RA	MR102008	R1	8C215345AK-**RASPI	150/-65	500	30	0
SP282ABAGN	RA	MR102008	R1	8C215345AK-**RASPI	150/-65	1000	30	0
SP483ACGAN	R	MR102025	R1	CY8CTST200-48PVXI	150/-65	500	30	0
SP483ACGAN	R	MR102025	R1	CY8CTST200-48PVXI	150/-65	1000	30	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	150/-65	500	27	0
SP483HAAGR	M	MR102043	R1	CY14B101L-SP45XCT	150/-65	1000	22	0
SP483ACGAN	R	MR103028	R1	CY8C20546A-24PVXI	150/-65	500	30	0
SP28214GL	T	RR093015	R1	CY8C21534-24PVXI	150/-65	100	77	0
SP28214GL	T	RR093015	R1	CY8C21534-24PVXI	150/-65	300	77	0
SP28214GL	T	RR093015	R1	CY8C21534-24PVXI	150/-65	500	77	0

Summary for Package Family: SSOP (Pb-Free)

85 records

Sum 3956 0

TQFP

A32LXGXGB	Q	MR101025	R1	CY29948AC	150/-65	500	30	0
A32LXGXGB	Q	MR101025	R1	CY29948AC	150/-65	1000	30	0

Summary for Package Family: TQFP

2 records

Sum 60 0

TQFP (Pb-Free)

AZ100SFBAL	RA	080902	R2	CY8C3866AXI-040ES2	150/-65	500	77	0
AZ100SFBAL	RA	080902	R2	CY8C3866AXI-040ES2	150/-65	1000	77	0
AZ100SFBAL	R	080902	R3	CY8C3866AXI-040ES2	150/-65	500	77	0
AZ100SFBAL	R	080902	R3	CY8C3866AXI-040ES2	150/-65	1000	77	0
AZ100RUBLN	R	MR093041	R1	CY7C1353G-100AXC	150/-65	1000	30	0
AZ32BXGAN	Q	MR093053	R1	CY7C4211-15AXC	150/-65	1000	30	0
AZ144AAAGR	Q	MR093060	R1	CY7C057V-15AXCT	150/-65	1000	30	0
AZ100SEGL	R	MR093062	R1	CY37064P100-125AXC	150/-65	1000	30	0
AZ52AAGAL	Q	MR094014	R1	CY29972AXI	150/-65	500	30	0
AZ52AAGAL	Q	MR094014	R1	CY29972AXI	150/-65	1000	28	0
AZ100RUBLN	R	MR094053	R1	CY7C1347G-133AXC	150/-65	500	30	0
AZ100RUBLN	R	MR094053	R1	CY7C1347G-133AXC	150/-65	1000	30	0
AZ128BGAL	G	MR101013	R1	CY7C68013A-128AXC	150/-65	500	30	0
AZ128BGAL	G	MR101013	R1	CY7C68013A-128AXC	150/-65	1000	27	0
AZ32LXGAN	Q	MR101031	R1	CY29946AXI	150/-65	500	30	0
AZ32LXGAN	Q	MR101031	R1	CY29946AXI	150/-65	1000	30	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150/-65	500	7	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150/-65	500	30	0



AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150/-65	1000	22	0
AZ52AAGAL	Q	MR101032	R1	CY29972AXIT	150/-65	1000	8	0
AZ32GXGAN	G	MR102015	R1	CY29940AXCT	150/-65	500	30	0
AZ32GXGAN	G	MR102015	R1	CY29940AXCT	150/-65	1000	30	0
AZ32GXGAN	G	MR102032	R1	CY29940AXCT	150/-65	500	30	0
AZ32GXGAN	G	MR102032	R1	CY29940AXCT	150/-65	1000	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	150/-65	100	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	150/-65	500	30	0
AZ32BXGAN	Q	MR102038	R1	CY7C4251V-15AXC	150/-65	1000	30	0
AZ100AGAL	G	MR102065	R1	CY7C008V-25AXC	150/-65	500	30	0
AZ100AGAL	G	MR102065	R1	CY7C008V-25AXC	150/-65	1000	30	0
AZ100RYBLN	R	NR092001	R2	CY7C1367C-166AXC	150/-65	1000	76	0

Summary for Package Family: TQFP (Pb-Free)

30 records

Sum 1076 0

TSOP (Pb-free)

ZT32RABALL	T	MR093038	R1	CY62138FV30LL-45ZXIT	150/-65	1000	28	0
ZT32RAEDLN	RA	MR094004	R1	CY62128ELL-45ZXIT	150/-65	500	30	0
ZT32RAEDLN	RA	MR094004	R1	CY62128ELL-45ZXIT	150/-65	1000	30	0
ZT28R2BBLN	R	MR094026	R1	CY62256NLL-55ZXI	150/-65	500	30	0
ZT28R2BBLN	R	MR094026	R1	CY62256NLL-55ZXI	150/-65	1000	30	0
ZT32RABALL	T	MR094044	R1	CY62128BNLL-55ZXI	150/-65	500	30	0
ZT32RABALL	T	MR094044	R1	CY62128BNLL-55ZXI	150/-65	1000	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXAX	150/-65	500	30	0
ZT32RBBALL	T	MR101033	R1	CY62128ELL-45ZXAX	150/-65	1000	30	0

ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	150/-65	500	30	0
ZT32RAEDLN	RA	MR102003	R1	CG6708AMT	150/-65	1000	30	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	150/-65	500	30	0
ZT32RABALL	T	MR102037	R1	CY62138FV30LL-45ZXI	150/-65	1000	30	0
ZT28R4BGL	R	MR102053	R1	CY7C1399BNL-12ZXCT	150/-65	500	30	0
ZT28R4BGL	R	MR102053	R1	CY7C1399BNL-12ZXCT	150/-65	1000	30	0
ZT32RAEDLN	RA	MR103003	R1	CY62128EV30LL-45ZXI	150/-65	500	30	0
ZT32RABALL	T	MR103056	R1	CY62138FV30LL-45ZXI	150/-65	500	30	0

Summary for Package Family: TSOP (Pb-free)

17 records

Sum 508 0

TSOP I (Pb-Free)

ZB32RHBALN	R	MR093065	R1	CY62128EV30LL-45ZAXIT	150/-65	1000	30	0
ZB32RHBALN	R	MR094030	R1	CY62128EV30LL-45ZAXI	150/-65	500	30	0
ZB32RHBALN	R	MR094030	R1	CY62128EV30LL-45ZAXI	150/-65	1000	30	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	150/-65	500	30	0
ZB32RKALL	T	MR101003	R1	CY62128EV30LL-45ZAXIT	150/-65	1000	30	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	150/-65	500	30	0
ZB32RHBALN	R	MR102004	R1	CY62138FV30LL-45ZAXIT	150/-65	1000	30	0
ZB32RHBALN	R	MR103006	R1	CY62138FV30LL-45ZAXI	150/-65	500	30	0

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

8 records

Sum 240 0

TSOP II (Pb-Free)

ZW444ZALL	G	082703	R3	7C1408B8BC-	150/-65	1000	77	0
ZW444ZALL	G	092205	R3	7C1408B1CC	150/-65	1000	77	0

ZW54CABLR	G	093403	R1	7C1408B7CC	150/-65	500	77	0
ZW54CABLR	G	093403	R1	7C1408B7CC	150/-65	1000	77	0
ZW54CABLR	G	093403	R2	7C1408B7CC	150/-65	500	77	0
ZW54CABLR	G	093403	R2	7C1408B7CC	150/-65	1000	77	0
ZW54CABLR	G	093403	R3	7C1408B7CC	150/-65	500	77	0
ZW54CABLR	G	093403	R3	7C1408B7CC	150/-65	1000	77	0
ZW324FBGL	T	101602	R1	7A1319GC	150/-65	500	84	0
ZW324FBGL	T	101602	R1	7A1319GC	150/-65	1000	83	0
ZW324FBGL	T	101602	R2	7A1319GC-	150/-65	500	85	0
ZW324FBGL	T	101602	R2	7A1319GC-	150/-65	1000	85	0
ZW324FBGL	T	101602	R3	7A1319GC	150/-65	500	85	0
ZW324FBGL	T	101602	R3	7A1319GC	150/-65	1000	85	0
ZW444RCGN	R	AR1002019	R1	CY62136VNLL-55ZSXA	150/-65	100	22	0
ZW444RCGN	R	AR1002019	R1	CY62136VNLL-55ZSXA	150/-65	500	22	0
ZW444RCGN	R	AR1002019	R1	CY62136VNLL-55ZSXA	150/-65	1000	22	0
ZW444AIBLL	R	AR1003002	R1	CY62126EV30LL-45ZSXIT	150/-65	100	19	0
ZW444AIBLL	R	AR1003002	R1	CY62126EV30LL-45ZSXIT	150/-65	500	19	0
ZW444AIBLL	R	AR1003002	R1	CY62126EV30LL-45ZSXIT	150/-65	1000	19	0
ZW444AJLN	R	AR1031002	R1	7A122001GC	150/-65	500	19	0
ZW544AALL	G	MR093026	R1	CY7C1069AV33-10ZXC	150/-65	1000	30	0
ZW324GALL	T	MR094045	R1	CY7C1019DV33-10ZSXI	150/-65	500	30	0
ZW444YBLL	R	MR094059	R1	CY7C1041BNL-15ZXC	150/-65	500	30	0
ZW444YBLL	R	MR094059	R1	CY7C1041BNL-15ZXC	150/-65	1000	30	0
ZW444AHLL	R	MR101038	R1	CY62126EV30LL-55ZSXE	150/-65	500	28	0

ZW444AHLL	R	MR101038	R1	CY62126EV30LL-55ZSXE	150/-65	1000	28	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	150/-65	500	30	0
ZW54BGALL	G	MR101055	R1	CY7C1069DV33-10ZSXI	150/-65	1000	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	150/-65	500	30	0
ZW444AAGLL	T	MR102036	R1	CY62146ESL-45ZSXI	150/-65	1000	30	0
ZW444AMLN	R	MR102040	R1	CY62146ELL-45ZSXA	150/-65	500	30	0
ZW444AMLN	R	MR102040	R1	CY62146ELL-45ZSXA	150/-65	1000	30	0
ZW544AALL	G	MR102050	R1	CY7C1069AV33-10ZXC	150/-65	500	30	0
ZW544AALL	G	MR102050	R1	CY7C1069AV33-10ZXC	150/-65	1000	30	0
ZW544AALL	G	MR103034	R1	CY7C1061AV33-10ZXC	150/-65	500	30	0
ZW544AALL	G	RR093012	R1	CY7C1069AV33-10ZXC	150/-65	500	45	0
ZW544AALL	G	RR093016	R1	CY7C1069AV33-10ZXC	150/-65	500	50	0
ZW544AALL	G	RR093016	R2	CY7C1069AV33-10ZXC	150/-65	500	50	0
ZW444AIBLL	R	RR102014	R1	CY62126EV30LL-45ZSXIT	150/-65	50	58	0
ZW444AIBLL	R	RR102014	R1	CY62126EV30LL-45ZSXIT	150/-65	100	58	0

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

41 records

Sum 1972 0

TSSOP

Z2412XAGB	M	MR102017	R1	W232-10XT	150/-65	100	30	0
Z2412XAGB	M	MR102017	R1	W232-10XT	150/-65	500	30	0
Z2412XAGB	M	MR102017	R1	W232-10XT	150/-65	1000	30	0

Summary for Package Family: TSSOP

3 records

Sum 90 0

TSSOP (Pb-Free)

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

Summary for Package Family: TSSOP (Pb-Free)

18 records

Sum 564 0

VFBGA (0.75-0.8, 0.3mm)

BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	150/-65	500	30	0
BV48DAAALE	RA	MR101001	R1	CY62147EV30LL-45BVIT	150/-65	1000	30	0
BV48BEABLE	G	MR102018	R1	CY62146DV30LL-55BVI	150/-65	500	30	0

BV48BEABLE	G	MR102018	R1	CY62146DV30LL-55BVI	150/-65	1000	29	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	150/-65	500	30	0
BV48DAAALE	RA	MR102020	R1	CY62147EV30LL-45BVIT	150/-65	1000	30	0
Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)			6	records				
Sum							179	0
VFBGA (0.75-0.8, 0.3mm, Pb-Free)								
BZ100DGALL	RA	MR093022	R1	CYWB0124AB-BVXI	150/-65	1000	30	0
BZ48ABCALL	AT	MR093059	R1	CG6851AM	150/-65	1000	28	0
BZ48ABCALL	AT	MR093070	R1	CG6851AM	150/-65	500	30	0
BZ48ABCALL	AT	MR093070	R1	CG6851AM	150/-65	1000	30	0
BZ100DGALL	RA	MR094011	R1	CYWB0120AB-BVXIT	150/-65	500	30	0
BZ100DGALL	RA	MR094011	R1	CYWB0120AB-BVXIT	150/-65	1000	29	0
BZ48CRALL	G	MR094024	R1	CY62167EV30LL-45BVXI	150/-65	500	29	0
BZ48CRALL	G	MR094024	R1	CY62167EV30LL-45BVXI	150/-65	1000	28	0
BZ48DAGLL	RA	MR094025	R1	CY62137FV30LL-45BVXIT	150/-65	500	30	0
BZ48DAGLL	RA	MR094025	R1	CY62137FV30LL-45BVXIT	150/-65	1000	30	0
BZ48ABCALL	AT	MR094054	R1	CY62126EV30LL-45BVXI	150/-65	500	30	0
BZ48ABCALL	AT	MR094054	R1	CY62126EV30LL-45BVXI	150/-65	1000	30	0
BZ48ATALL	RA	MR094071	R1	CY62157DV30LL-55BVXI	150/-65	500	29	0
BZ48ATALL	RA	MR094071	R1	CY62157DV30LL-55BVXI	150/-65	1000	29	0
BZ100BABLL	RA	MR101006	R1	CYDMX256A16-90BVXI	150/-65	500	30	0
BZ100BABLL	RA	MR101006	R1	CYDMX256A16-90BVXI	150/-65	1000	29	0
BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	150/-65	500	29	0
BZ48CRALL	G	MR101048	R1	CY62167EV30LL-45BVXI	150/-65	1000	29	0

BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	150/-65	500	29	0
BZ48CHAALL	G	MR101051	R1	CY62126EV30LL-45BVXIT	150/-65	1000	29	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	150/-65	500	30	0
BZ48ABDALL	AT	MR101061	R1	CY62137EV30LL-45BVXI	150/-65	1000	30	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	150/-65	500	30	0
BZ48ATALL	RA	MR102002	R1	CY62157DV30LL-70BVXI	150/-65	1000	30	0
BZ100DGALL	RA	MR102012	R1	CYWB0120AB-BVXIT	150/-65	500	30	0
BZ100DGALL	RA	MR102012	R1	CYWB0120AB-BVXIT	150/-65	1000	30	0
BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	150/-65	500	30	0
BZ48CHAALL	G	MR102029	R1	CY62126EV30LL-45BVXIT	150/-65	1000	30	0
BZ48CFAALL	G	MR102034	R1	CY62157EV30LL-45BVXI	150/-65	500	30	0
BZ48CFAALL	G	MR102034	R1	CY62157EV30LL-45BVXI	150/-65	1000	30	0
BZ48ATALL	RA	MR103002	R1	CY62157DV30LL-70BVXIT	150/-65	500	30	0
BZ100BABLL	RA	MR103020	R1	CYDMX256A16-65BVXI	150/-65	500	29	0

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

Sum 946 0