



# 2012 Q4 RELIABILITY REPORT

## TABLE OF CONTENTS

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



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

This report summarizes Cypress Semiconductor Product Reliability for the period of the 4th quarter of 2012. It includes data from devices fabricated at both internal Cypress and external subcontractor wafer fabrication and assembly facilities.

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

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

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

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

Sabbas Daniel  
Executive Vice-President, Quality

---



## 2.0 PRODUCT RELIABILITY

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

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

### 2.1 EARLY FAILURE RATE SUMMARY

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

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

**Table 1. Early Failure Rate Summary**

Technology	Device Hours	# Failed	PPM	Failure Mode
LL65	2,028,883	4	61	Fab Defect (See Note 1)
C9	719,509	0	0	None
R8	158,245	0	0	None
S8	4,211,894	0	0	None
C8	21,585	0	0	None
R9	1,018,322	0	0	None
R7	564,528	0	0	None
S4	512,970	0	0	None
R52	120,000	0	0	None
B53	61,905	0	0	None
R42	92,903	0	0	None
R95	463,649	0	0	None
R28	47,952	0	0	None
<b>Grand Total</b>	<b>10,022,344</b>	<b>4</b>	<b>16</b>	<b>See above</b>

Note:

1) Fab Defect (CAR# 201216006) – Will be covered by Fab continuous defect improvement.



## 2.2 LONG TERM FAILURE RATE SUMMARY

A High Temperature Operating Life test (HTOL) is used to estimate long-term reliability. By operating the devices at accelerated temperature and voltage, hundreds of thousands of use hours can be compressed into hundreds of test hours.

**Test** : High Temperature Operating Life Test (HTOL)  
**Conditions** : Dynamic Operating Conditions, VCC nominal +15% 150°C or 125°C.  
**Duration** : A minimum of 80 hours at 150°C or 168 hours at 125°C  
 Generally 500 hours at 150°C or 1000 hours at 125°C.  
 (Refer to Appendix C for derating factor calculation)  
**Failure** : A failure is any device that fails to meet data sheet electrical requirements.  
**Fit Rate** : Derated to 55° C ambient, with 60% upper confidence bound for 0 failures, Ea =0.7ev (Refer to Appendix A)

**Table 2. Long Term Failure Rate Summary**

Technology	Device Hours	# Failed	FIT Rate	PPM	Failure Mode
C8	58,000	0	Insufficient	0	None
LL65	1,147,449	0	5	0	None
C9	1,214,447	0	4	0	None
R8	132,785	0	Insufficient	0	None
R9	849,284	0	6	0	None
R52	215,276	0	25	0	None
S8	2,049,971	1	6	200	Fab Defect (See Note 1)
S4	1,045,239	0	5	0	None
R95	210,250	0	26	0	None
R7	399,992	0	13	0	None
0.8um	23,226	0	Insufficient	0	None
R42	209,161	0	26	0	None
R28	58,000	0	Insufficient	0	None
<b>Grand Total</b>	<b>7,613,080</b>	<b>1</b>	<b>1.6</b>	<b>46</b>	<b>See above</b>

Notes:

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

2) Fab Defect (CAR# 201245018) – Will be covered by Fab continuous defect improvement.



### 2.3 DATA RETENTION SUMMARY

A high-temperature, non-biased bake test ensures that data retention meets established reliability goals. The devices are baked without bias at either 150°C for plastic-packaged devices, or 250°C for hermetically-packaged devices. DRET is performed on programmed devices to establish a failure rate for cell charge loss. The reliability at nominal system ambient temperature is related to the failure rate at elevated temperatures through the Acceleration Factor equation.

- Test** : Data Retention Testing (DRET)
- Conditions** : High temperature non-biased bake
- Duration** : A minimum of 500 hours at 150°C or 168 hours at 165°C  
Generally 1000 hours at 150°C or 500 hours at 165°C.
- Failure** : Devices are programmed with a worst case program pattern before being subjected to data retention testing. The reliability at nominal system ambient temperature is related to the failure rate at elevated temperatures through the Acceleration Factor equation.

**Table 3. Data Retention Summary**

Technology	Device Hours	# Failed	PPM	Failure Mode
S4	18,946,040	0	0	None
S8	8,552,938	0	0	None
<b>Total</b>	<b>27,498,978</b>	<b>0</b>	<b>0</b>	<b>None</b>



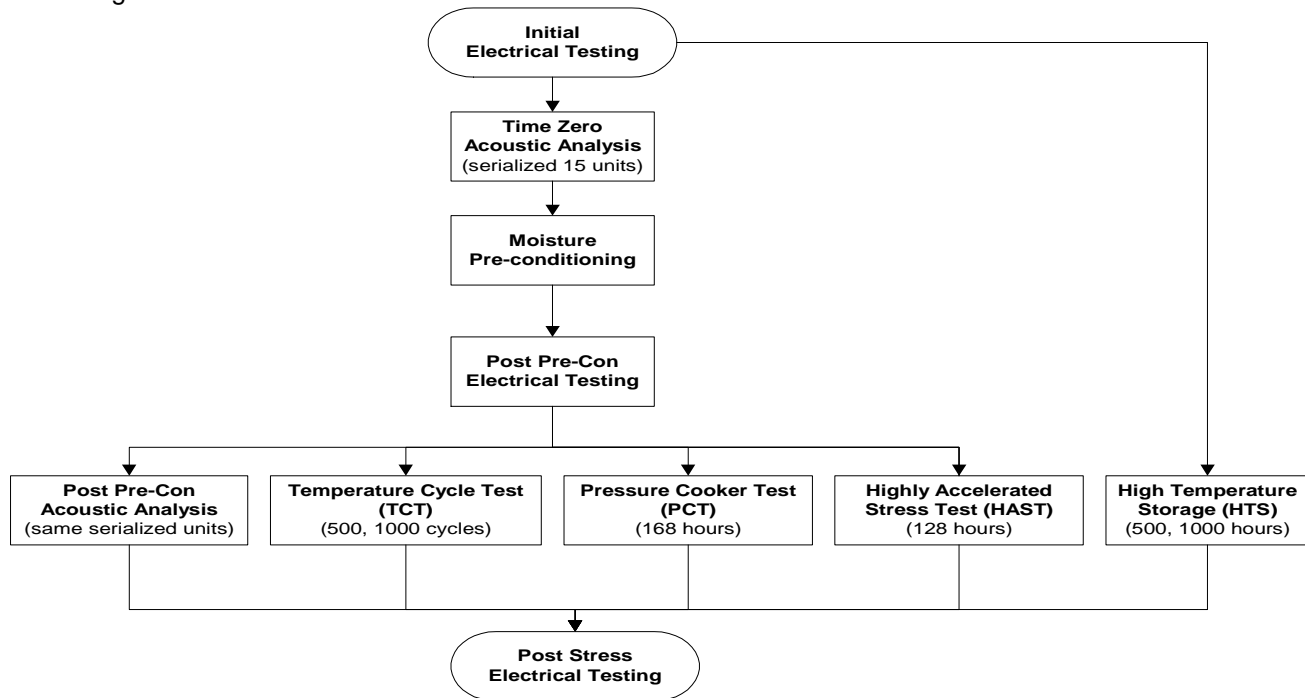
### 3.0 PACKAGE RELIABILITY

Package-level reliability testing refers to the assessment of the overall reliability of the device in packaged form. This consists of subjecting packaged samples to reliability tests that expose the various sample sets to different stress conditions, after which the samples are tested for any degradation.

At Cypress, package reliability tests are performed as part of the qualification processes and as part of the standard reliability monitoring program. The reliability test employed is chosen based on the failure mechanism, as different stress tests accelerate different failure mechanisms. These reliability tests utilize one or more of the following stress factors to accelerate failure: temperature, moisture or humidity, current, voltage, and pressure. The package reliability tests currently employed at Cypress include Pressure Cooker Test (PCT), Highly Accelerated Stress Test (HAST), Temperature Cycle Test (TCT), and High Temperature Storage (HTS). Figure 1 shows the Cypress package reliability stress flow.

Surface-mount samples are preconditioned per Jedec Std JESD22-A113 prior to package reliability testing. This is required prior to TCT, PCT and HAST testing. Preconditioning simulates the board mounting process of the customer. It normally consists of a temperature cycle to simulate exposure to different temperatures during shipping, a bake to drive away the moisture inside the packages of the samples, a soak to drive a controlled amount of moisture into the package, and three cycles of convection reflow. Packages are soaked and reflowed based on their shipping moisture sensitivity classification. The samples are tested (acoustic and electrical) after preconditioning, failures from which are considered as preconditioning failures and not reliability failures. Preconditioning failures should be taken seriously, since these imply that the samples are not robust enough to withstand the board mounting process.

Cypress conducts all major classes of package reliability tests on each of its package families. The package characteristics and assembly locations are the primary considerations when grouping packages into package families. A package family may consist of a group of 44-lead to 144-lead TQFP packages manufactured at a particular manufacturing location.



**Figure 1. Cypress Package Reliability Stress Flow**

### 3.1 PRESSURE COOKER TEST (PCT)

The Pressure Cooker Test is a highly accelerated packaging stress test used to ensure environmental durability of epoxy-packaged parts. Passivation cracks, ionic contamination, and corrosion susceptibility are all accelerated by this stress.

- Conditions** : 15 PSIG, 121°C, No bias, for a minimum of 168 hours.
- Pre-Conditioning** : 5 cycles Temperature Cycle –65/+150, 24 hr Bake 125°C, Moisture loading to qualified MSL level
- Failure Modes** : Parametric shifts, high leakage, and/or catastrophic
- Failure Mechanism** : Die corrosion or contaminants such as foreign material on or within the package materials. Poor package sealing.

**Table 4. Pressure Cooker Test Failure Rate Summary**

Package	Sample Size	# Failed	Defects %	Failure Mode
UFBGA (Pb-free)	625	0	0	None
FBGA (0.75-0.8, 0.3mm)	176	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	494	0	0	None
FBGA (1.0-1.27)	450	0	0	None
FBGA (1.0-1.27, Pb-free)	1380	0	0	None
PBGA (1.27)	29	0	0	None
FLIPCHIP CSP (Pb-Free)	161	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	60	0	0	None
PDIP (Pb-Free)	418	0	0	None
PLCC (Pb-Free)	180	0	0	None
PQFP (Pb-free)	300	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	1138	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	60	0	0	None
QFN (Punch Type, Pb-Free)	300	0	0	None
QFN (Saw Type, Pb-Free)	6288	0	0	None
QSOP (Pb-Free)	100	0	0	None
SNC (Pb-Free)	90	0	0	None
SOIC	60	0	0	None
SOIC (Pb Free)	2939	0	0	None
SOJ	30	0	0	None
SOJ (Pb-Free)	386	0	0	None
SSOP (Pb-Free)	947	0	0	None
TQFP (Pb-Free)	1047	0	0	None
TSOP (Pb-free)	559	0	0	None
TSOP I (Pb-Free)	120	0	0	None
TSOP II (Pb-Free)	1691	0	0	None
RTSOP (Pb-free)	30	0	0	None
TSSOP (Pb-Free)	540	0	0	None
VFBGA (0.75-0.8, 0.3mm)	210	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	1219	0	0	None
PBGA (Pb-Free)	60	0	0	None
<b>Grand Total</b>	<b>22,097</b>	<b>0</b>	<b>0.00%</b>	<b>None</b>



### 3.2 HIGHLY ACCELERATED STRESS TEST (HAST)

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

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

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

Package	Sample Size	# Failed	Defects %	Failure Mode
UFBGA (Pb-free)	904	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	140	0	0	None
FBGA (1.0-1.27)	30	0	0	None
FBGA (1.0-1.27, Pb-free)	909	0	0	None
FCBGA	30	0	0	None
PDIP (Pb-Free)	180	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	1350	0	0	None
QFN (Punch Type, Pb-Free)	90	0	0	None
QFN (Saw Type, Pb-Free)	1910	0	0	None
SNC (Pb-Free)	30	0	0	None
SOIC	29	0	0	None
SOIC (Pb Free)	613	0	0	None
SOJ (Pb-Free)	180	0	0	None
SSOP (Pb-Free)	387	0	0	None
TQFP	25	0	0	None
TQFP (Pb-Free)	178	0	0	None
TSOP (Pb-free)	300	0	0	None
TSOP I (Pb-Free)	30	0	0	None
TSOP II (Pb-Free)	505	0	0	None
TSSOP (Pb-Free)	60	0	0	None
VFBGA (0.75-0.8, 0.3mm)	30	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	273	0	0	None
PLCC (Pb-Free)	30	0	0	None
<b>Grand Total</b>	<b>8,213</b>	<b>0</b>	<b>0.00%</b>	<b>None</b>



### 3.3 TEMPERATURE CYCLE TEST (TC)

Differences in thermal expansion coefficients are accentuated by cycling devices through temperature extremes. If the materials do not expand and contract equally, large stresses can develop. The Temperature Cycle test stresses mechanical integrity by exposing a device to alternating temperature extremes. Weakness and thermal expansion mismatches in die interconnections, die attach, and wire bonds are often detected with this accelerated test.

- Condition** : MIL-STD-883D, Method 1010, Condition B, -55°C to 125°C  
MIL-STD-883D, Method 1010, Condition C, -65°C to 150°C  
(Refer to Appendix C for derating factor calculation)
- Pre-Conditioning** : 5 cycles Temperature Cycle -65/+150, 24 hr Bake 125°C, Moisture loading to qualified MSL level
- Duration** : 500 cycles minimum at Condition C,  
1000 cycles minimum at Condition B
- Failure Mode** : Parametric shifts and catastrophic failures
- Failure Mechanism** : Wire bond, cracked or lifted die and package failure.

**Table 6. Temperature Cycling Failure Rate Summary**

Package	Sample Size	# Failed	Defects %	Failure Mode
UFBGA (Pb-free)	1,146	0	0	None
FBGA (0.75-0.8, 0.3mm)	209	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	827	0	0	None
FBGA (1.0-1.27)	448	0	0	None
FBGA (1.0-1.27, Pb-free)	3,241	0	0	None
PBGA (1.27)	30	0	0	None
FLIPCHIP CSP (Pb-Free)	2,028	0	0	None
PBGA (Cavity/Heat Sink)	464	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	60	0	0	None
PDIP	60	0	0	None
PDIP (Pb-Free)	453	0	0	None
PLCC (Pb-Free)	179	0	0	None
PQFP (Pb-free)	265	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	4,467	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	57	0	0	None
QFN (Punch Type, Pb-Free)	398	0	0	None
QFN (Saw Type, Pb-Free)	11,542	0	0	None
QFN (0.8mm Saw Type, Pb-Free)	30	0	0	None
QSOP (Pb-Free)	439	0	0	None
SNC (Pb-Free)	99	0	0	None
SOIC	60	0	0	None
SOIC (Pb Free)	4,026	70	2%	Cut Wedge (See Note 1)
SOJ	60	0	0	None
SOJ (Pb-Free)	522	0	0	None
SSOP (Pb-Free)	2,225	0	0	None
TQFP (Pb-Free)	1,537	0	0	None
TSOP (Pb-free)	610	0	0	None
TSOP I (Pb-Free)	178	0	0	None
TSOP II (Pb-Free)	1,573	0	0	None
RTSOP (Pb-free)	60	0	0	None
TSSOP (Pb-Free)	840	0	0	None
VFBGA (0.75-0.8, 0.3mm)	268	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	1,651	0	0	None
PBGA (Pb-Free)	60	0	0	None
<b>Grand Total</b>	<b>40,112</b>	<b>70</b>	<b>0.17%</b>	<b>See Above</b>

Note :

1)CAR 201237016 – Mold cure condition optimization



### 3.4 HIGH TEMPERATURE STORAGE (HTS)

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

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

**Table 7. High Temperature Storage Failure Rate Summary**

Package	Sample Size	# Failed	Defects %	Failure Mode
UFBGA (Pb-free)	1,485	0	0	None
FBGA (0.75-0.8, 0.3mm)	210	0	0	None
FBGA (0.75-0.8, 0.3mm, Pb-free)	999	0	0	None
FBGA (1.0-1.27)	390	0	0	None
FBGA (1.0-1.27, Pb-free)	2,940	0	0	None
FLIPCHIP CSP (Pb-Free)	240	0	0	None
PBGA (Cavity/Heat Sink, Pb-free)	60	0	0	None
PDIP (Pb-Free)	510	0	0	None
PLCC (Pb-Free)	239	0	0	None
PQFP (Pb-free)	270	0	0	None
QFN (COL, 0.6mm, Saw Type, Pb-free)	2,003	0	0	None
QFN (0.6mm, Punch Type, Pb-Free)	60	0	0	None
QFN (Punch Type, Pb-Free)	210	0	0	None
QFN (Saw Type, Pb-Free)	11,508	0	0	None
QFN (0.8mm Saw Type, Pb-Free)	30	0	0	None
QSOP (Pb-Free)	80	0	0	None
SNC (Pb-Free)	60	0	0	None
SOIC	60	0	0	None
SOIC (Pb Free)	1,895	0	0	None
SOJ	30	0	0	None
SOJ (Pb-Free)	528	0	0	None
SSOP (Pb-Free)	1,015	0	0	None
TQFP (Pb-Free)	1,240	0	0	None
TSOP (Pb-free)	437	0	0	None
TSOP I (Pb-Free)	145	0	0	None
TSOP II (Pb-Free)	1,411	0	0	None
RTSOP (Pb-free)	60	0	0	None
TSSOP (Pb-Free)	596	0	0	None
VFBGA (0.75-0.8, 0.3mm)	298	0	0	None
VFBGA (0.75-0.8, 0.3mm, Pb-Free)	1,472	0	0	None
PBGA (Pb-Free)	30	0	0	None
<b>Grand Total</b>	<b>30,511</b>	<b>0</b>	<b>0.00%</b>	<b>None</b>



## APPENDIX A: FAILURE RATE CALCULATION

### Thermal Acceleration Factors

Acceleration factors (AF) for thermal stresses (Early Failure Rate, Latent Failure Rate, Data Retention and High Temperature Storage) are calculated from the Arrhenius equation)

$$AF = \exp\left(\frac{E_a}{k} \left(\frac{1}{T_u} - \frac{1}{T_t}\right)\right)$$

where :

$E_a$  = Activation Energy of the defect mechanism

$K$  = Boltzmann's constant =  $8.62 \times 10^{-5}$  eV/Kelvin

$T_t$  is the junction temperature of the device under stress

$T_u$  is the junction temperature of the device at use conditions

While there is no substitute for experimentally determining the activation energy, obtaining this information is very difficult because few devices fail stress tests. In the absence of experimental data, the following literature values are used.



## APPENDIX A: FAILURE RATE CALCULATION (cont.)

### Temperature-Humidity Acceleration Factors

Cypress estimates acceleration factors for temperature-humidity stresses (Pressure Cooker Test and Highly Accelerated Stress Test) from a model developed by Hallberg and Peck ("Quality and Reliability Engineering International". Vol. 7, 1991).

$$AF = \left( \frac{RH_t}{RH_u} \right)^{-3} \exp \frac{E_a}{k} \left( \left( \frac{1}{T_u} - \frac{1}{T_t} \right) \right)$$

where :

$T_u$  = use environment junction temperature (°K)

$T_t$  = test environment junction temperature (°K)

$E_a$  = failure mechanism activation energy (0.9 for corrosion)

$k$  = Boltzman's Constant ( $8.62 \times 10^{-5}$  eV/°Kelvin)

$RH_u$  = use environment relative humidity

$RH_t$  = test environment relative humidity

AF = acceleration factor

The Hallberg and Peck model requires the stress junction temperature and relative humidity as well as the use temperature and relative humidity. To estimate the use relative humidity, we assume that the device room temperature is 35 °C (95 °F) and the room relative humidity is 100%. From any Handbook of Chemistry and Physics, the vapor pressure of water VP (water) at 35 °C is 41.175 mm Hg. If we assume that the device will operate with a junction temperature of 70 °C (VP (water) at 70 °C is 233.7 mm Hg), the junction relative humidity (RHj) is

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

The operating conditions of the devices are then 70 °C and 17.6% relative humidity.

Our Pressure Cooker Test (PCT) submits the devices to a temperature of 121 °C and 100% relative humidity. Using the Hallberg and Peck model, the acceleration factor for the PCT stress can be calculated:

$$AF = \left( \frac{17.6}{100} \right)^{-3} \exp \frac{0.9}{k} \left( \left( \frac{1}{343} - \frac{1}{394} \right) \right) = 9,433$$



## APPENDIX A: FAILURE RATE CALCULATION (cont.)

The acceleration factor for HAST is calculated similarly, except that junction temperature heating effects must be included when estimating the relative humidity at the die surface. Assuming an average junction temperature rise of 5 °C, the relative humidity at the die surface during 130 C HAST testing can be calculated.

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

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

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

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

Similarly, for 140 °C HAST testing,

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

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

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

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



## APPENDIX A: FAILURE RATE CALCULATION (cont.)

### Failure Rate Calculation

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

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

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

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

where:

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

$n$  = number of failure.

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

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

## APPENDIX B: TEMPERATURE CYCLING STRESS MODELS

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

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

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

The model constant,  $m$ , is a function of the failure mechanism.

Thin film cracking	$m = 12$ (Blish and Vaney [2])
Al/Au Intermetallic fractures	$m = 4$
Chip-out (cratering) bond failures	$m = 7$ (Dunn and McPherson [3])

For ductile materials, dislocation movement dominates the fracture mechanics and a different model is used.

The second, and most widely accepted model, uses the difference between the minimum and maximum temperatures during temperature cycle testing ( $T_{\text{min}}$  and  $T_{\text{max}}$ ) to calculate an acceleration factor.

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

The model constant, 'm', is again experimentally calculated for each failure mechanism.

Coffin and Manson [4] developed this model from empirical observations of metal fatigue. In ductile materials, if the applied stress is high enough, dislocations are produced. At the high temperature condition of the temperature cycling stress, dislocations are forced towards one metal surface. At the low temperature, the dislocations try to glide back to their original position, but many cannot because they became entangled with other dislocations. After many cycles, these tangles grow until cracking, and finally failure, occurs. Both minimum and maximum temperatures are important, because both contribute to dislocation movement and entanglement. This model is recommended for any failures involving ductile materials. Model constants for ductile failure follow.

Wirebond breakage	$m = 5.16$ (Cypress experimentation)
Solder Fatigue	$m = 2$ (Blish and Vaney [2])



## APPENDIX B: TEMPERATURE CYCLING STRESS MODELS (cont.)

Our commercial devices are specified to operate between 0°C and 70 °C. Using this information, the acceleration factor, AF, between use and Military Condition C stress testing (-65°C to 150°C), for the brittle, thin film cracking failure mechanism and ductile, wire bond breakage failure mechanism can be calculated.

$$\text{AF brittle} = \left( \frac{170 - (-65)}{170 - 0} \right)^{12} = 49$$

$$\text{AF ductile} = \left( \frac{150 - (-65)}{70 - 0} \right)^{5.16} = 327$$

### References:

- [1] R.L. Zelenka, IEEE/IRPS, pp. 30-34, 1991
- [2] R.C. Blish and P.R. Vaney, IEEE/IRPS, pp 22-29, 1991
- [3] C.F. Dunn and J.W. McPherson, IEEE/IRPS, pp 252-258, 1990
- [4] S.S. Manson, thermal Stress and Low-Cycle Fatigue, (Robert Krieger : Malabar, Florida), 1981.





## APPENDIX C: EQUIVALENCE OF DIFFERENT STRESS TEST CONDITIONS

During stress testing, more than one set of test conditions were used. To account for this difference, stress test hours or cycles at the lower stress condition were derated and then added to the total for the most severe stress test condition.

### Dynamic (HTOL)

HTOL (EFR/LFR) test is performed at 150 °C and 125 °C. Using the Arrhenius equation (Appendix A) and an activation energy of 0.7 eV, the derating factor, DF, between 125°C and 150 °C can be calculated.

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

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

### Temperature Cycling

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

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

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

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

### HAST

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

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



## Appendix D - RELIABILITY DATA

FROM: 12/31/2011

TO: 12/30/2012

### Summary Detail -- EFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
LL65												
	MPD	112604	R2	7C2565QXO-**RABWC	125	5.0	96	96	2880	0		
	MPD	MR121071	R1	CY7C1512KV18-250BZXC	125	5.0	96	96	3400	0		
	MPD	MR121071	R1	CY7C1512KV18-250BZXC	125	5.0	96	96	3217	0		
	DCD	114603	R3	CYUSB3014-BZXIES	125	3.795	96	96	1035	0		
	DCD	114603	R4-Split 1	CYUSB3014-BZXIES	125	3.795	96	96	945	0		
	DCD	114603	R4-Split 2	CYUSB3014-BZXIES	125	3.795	96	96	89	0		
	DCD	114603	R5-Split 1	CYUSB3014-BZXI	125	3.795	96	96	855	0		
	DCD	114603	R5-Split 2	CYUSB3014-BZXI	125	3.795	96	96	180	0		
	MPD	MR122072	R1	CY7C1564XV18-366BZXC	125	5.0	96	96	665	0		
	MPD	MR122072	R2	CY7C1512KV18-250BZXC	125	1.95	96	96	3994	0		
	MPD	MR122072	R3	CY7C1512KV18-250BZXC	125	1.95	96	96	2244	0		
	MPD	MR114084	R2	CY7C1512KV18-300BZXC	125	1.95	96	96	272	0		
	MPD	MR121071	R2	CY7C1312KV18-250BZXC	125	1.95	96	96	300	0		



MPD	MR122072	R4	CY7C1512KV18-250BZXC	125	1.95	96	96	300	0		
DCD	114603	R2	CYUSB3014-BZXIES	125	3.795	96	96	999	0		
MPD	121001	R3-Split 1	CY7C1618KV18-300BZXC	125	1.95	96	96	328	0		
MPD	121001	R3-Split 2	CY7C1618KV18-300BZXC	125	1.95	96	96	2624	1	121001-3E1	No Visual Defect
MPD	120609	R1	CY7C16131KV18-300BZXC	125	1.95	96	96	1500	0		
MPD	120610	R1	CY7C1512KV18-250BZXC	125	1.95	96	96	1500	0		
MPD	121102	R1	CY7C1512KV18-250BZXC	125	1.8	96	96	5036	1	121102-1E1	Particle Defect
MPD	121102	R2	CY7C1512KV18-250BZXC	125	1.8	96	96	675	0		
MPD	121102	R3-Split 1	CY7C1512KV18-250BZXC	125	1.8	96	96	3400	0		
MPD	121102	R3-Split 2	CY7C1512KV18-250BZXC	125	1.8	96	96	3217	0		
MPD	121905	R2	CYF0144V33L-133BGXI	125	1.6	96	96	218	0		
MPD	120107	R1	CY7C1512KV18-250BZXC	125	1.95	96	96	1500	0		
MPD	120107	R2	CY7C1512KV18-250BZXC	125	1.95	96	96	1500	0		
MPD	MR113063	R1A	CY7C1512KV18-250BZXI	125	2.05	96	96	300	0		
MPD	MR123059	R1	CY7C1512KV18-250BZXI	125	1.95	96	96	500	0		
MPD	MR123059	R2	CY7C1512KV18-250BZXC	125	1.95	96	96	500	0		
MPD	MR131003	R1	CY7C1512KV18-250BZI	125	1.95	96	96	21343	2	CYCH-150	Gross Functional Failure

**Summary for Technology: LL65 30 records**

**Sum 65,516 4**

**C9**

MPD	MR121088	R1	7C1071NC-**GBKI	125	3.77	96	96	140	0		
MPD	120701	R1	CY7C1041DV33-10ZSXI	150	5	48	48	10919	0		





CCD	114003	R1A-Split 2	CY8C20467-24LQXI	150	2.1	48	48	676	0
CCD	MR114099	R1	CY8C3866AXI-040	150	2.07	48	48	1592	0
CCD	MR121089	R1	CY8C3446AXI-099	150	2.07	48	48	977	0
CCD	MR121065	R2	CY8CTMA463-48LQI	150	2.07	48	48	646	0
CCD	MR121065	R3-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	844	0
CCD	MR121065	R3-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	655	0
CCD	MR121090	R1	CY8C20466A-24LQXI	150	5.5	48	48	50	0
CCD	MR121090	R2	CY8C20466A-24LQXI	150	5.5	48	48	50	0
CCD	MR121090	R3	CY8C20466A-24LQXI	150	5.5	48	48	50	0
CCD	121105	R1	CY8CTMA443-48LQI	150	2.07	48	48	2	0
CCD	121105	R1-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	441	0
CCD	121105	R1-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	345	0
CCD	121105	R1-Split 3	CY8CTMA443-48LQI	150	2.07	48	48	244	0
CCD	121105	R2-Split1	CY8CTMA443-48LQI	150	2.07	48	48	242	0
CCD	121105	R2-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	628	0
CCD	121105	R2-Split 3	CY8CTMA443-48LQI	150	2.07	48	48	160	0
CCD	121105	R3-Split 1	CY8CTMA443-48LQI	150	2.07	96	96	97	0
CCD	121105	R3-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	500	0
CCD	121105	R3-Split 3	CY8CTMA443-48LQI	150	2.07	48	48	421	0
CCD	120502	R1-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	842	0
CCD	120502	R1-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	178	0
CCD	120502	R2-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	830	0



CCD	120502	R2-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	174	0
CCD	120502	R3-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	829	0
CCD	120502	R3-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	183	0
CCD	120502	R4-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	630	0
CCD	120502	R4-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	386	0
CCD	120502	R5-Split 1	CY8CTMA443-48LQI	150	2.07	48	48	829	0
CCD	120502	R5-Split 2	CY8CTMA443-48LQI	150	2.07	48	48	158	0
CCD	120502	R5-Split 3	CY8CTMA443-48LQI	150	2.07	48	48	32	0
MPD	122802	R2B	CY14ME064Q2A-SXI	125	5.0	96	96	1939	0
MPD	122802	R3B	CY14MB064Q2A-SXI	125	3.0	96	96	686	0
MPD	122802	R2A	CY14ME064Q2A-SXI	125	5.0	96	96	1201	0
MPD	122802	R3A	CY14MB064Q2A-SXI	150	3.0	96	96	697	0
MPD	MR124078	R1	7C1436B5AC	125	3.0	96	96	686	0
MPD	MR124078	R2	7C1436E5AC	125	5.0	96	96	1201	0
MPD	MR124078	R3	7C1436B5AC	125	3.0	96	96	697	0
MPD	MR124078	R4	7C1436E5AC	125	5.0	96	96	1939	0
MPD	MR124079	R1	7C1431B5AC	125	3.0	96	96	1115	0
MPD	MR124079	R2	7C1436E5AC	125	5.0	96	96	2239	0
CCD	MR114051	R4	CY8C20446A-24LQXIT	150	5	48	48	997	0
CCD	MR122071	R1-Split 1	CY8C20466A-24LQXI	150	2.07	48	48	944	0
CCD	MR122071	R1-Split 2	CY8C20466A-24LQXI	150	2.07	48	48	944	0
CCD	MR122071	R1-Split 3	CY8C20466A-24LQXI	150	2.07	48	48	1084	0



CCD	MR122071	R1-Split 4	CY8C20466A-24LQXI	150	2.07	48	48	1084	0
CCD	MR122071	R1-Split 5	CY8C20466A-24LQXI	150	2.07	48	48	841	0
MPD	MR123060	R1	CY14B101LA-ZS45XI	150	3.3	48	48	546	0
CCD	112007	R2-Split 1	CY8C20446AS-24LQXI	150	2.1	72	72	901	0
CCD	112007	R2-Split 2	CY8C20446AS-24LQXI	150	2.1	48	48	901	0
CCD	112007	R2-Split 3	CY8C20446AS-24LQXI	150	2.1	48	48	198	0
CCD	112007	R3-Split 2	CY8C20446AS-24LQXI	125	2.1	48	48	897	0
CCD	112007	R3-Split 3	CY8C20446AS-24LQXI	125	2.1	48	48	401	0
MPD	113005	R2C	CY14ME064Q2B-SXI	125	5.5	96	96	3330	0
MPD	113005	R2C	CY14ME064Q2B-SXI	125	5.5	48	48	3503	0
MPD	113005	R2E	CY14MB064Q2B-SXI	125	3.3	96	96	594	0
MPD	113005	R2E	CY14MB064Q2B-SXI	125	3.3	48	48	684	0
MPD	113005	R2F	CY14MB064Q2B-SXI	125	3.3	48	48	696	0
MPD	113005	R2F	CY14MB064Q2B-SXI	125	3.3	96	96	693	0
CCD	120111	R1	CY8CTMA443-48LQI	150	2.07	48	48	760	0
CCD	120111	R1	CY8CTMA443-48LQI	150	2.07	48	48	750	0
CCD	120205	R1-Split 1	CY8CTMA300E-48LQXI	150	5.75	48	48	460	0
CCD	120205	R1-Split 2	CY8CTMA300E-48LQXI	150	5.75	48	48	453	0
CCD	120205	R1-Split 3	CY8CTMA300E-48LQXI	150	5.75	48	48	447	0
CCD	120205	R1-Split 4	CY8CTMA300E-48LQXI	150	5.75	48	48	133	0
CCD	120402	R1	CY8C3866AXI-040ES4	150	2.07	48	48	48	0
CCD	120402	R1-Split 1	CY8C3866AXI-040ES4	150	2.07	48	48	1080	0



CCD	120402	R1-Split 2	CY8C3866AXI-040ES4	150	2.07	48	48	450	0
CCD	120402	R2	CY8C3866AXI-040ES4	150	2.07	48	48	1550	0
CCD	120501	R2	CY8C5868AXI-LP035ES	150	2.07	48	48	53	0
CCD	120501	R2	CY8C5868AXI-LP035ES	150	2.07	48	48	1538	0
MPD	MR123060	R1	CY14B101LA-ZS45XI	150	3.36	48	48	454	0
MPD	MR121072	R1	CY14B101LA-ZS45XI	150	3.3	48	48	677	0
PSD	124802	R5-Split 1	CY8CTMA884AE-12	150	2.07	48	48	778	0
PSD	124802	R5-Split 2	CY8CTMA884AE-12	150	2.07	48	48	390	0
PSD	124802	R5-Split 3 (B3A)	CY8CTMA884AE-12	150	2.07	48	48	129	0
PSD	124802	Split 3 (B)	CY8CTMA884AE-12	150	2.07	48	48	233	0
PSD	124802	R5A-Split 1	CY8CTMA616AE-12	150	2.1	48	48	1464	0
PSD	124802	R5A-Split 3 (B3A)	CY8CTMA616AE-12	150	2.1	48	48	39	0
PSD	124802	R5A-Split 3B	CY8CTMA616AE-12	150	2.1	48	48	296	0
PSD	124802	R6-Split 1	CY8CTMA616AA-12	150	2.07	48	48	1248	0
PSD	124802	R6-Split 1	CY8CTMA616AA-12	150	2.07	48	48	263	0
PSD	124802	R6A-Split 1	CY8CTMA616AA-12	150	2.1	48	28	1613	0
PSD	124802	R6A- (Split3) B	CY8CTMA616AA-12	150	2.1	48	48	247	0
PSD	124802	R6A-(Split3) B3A	CY8CTMA616AA-12	150	2.1	48	48	40	0
PSD	124802	R7-Split 1	CY8CTMA616AA-23	150	2.07	48	48	1460	0
PSD	124802	R7-(Split3) B3A	CY8CTMA616AA-23	150	2.07	48	48	194	0
PSD	124802	R7A-Split 1	CY8CTMA884AA-23	150	2.1	48	48	1591	0
PSD	124802	R7A-(Split 3)B3A	CY8CTMA884AA-23	150	2.1	48	48	172	0





PSD	124802	R7A-(Split3) B	CY8CTMA884AA-23	150	2.1	48	48	134	0
CCD	120802	R1B-Split 1	CY8CTMA340-48LQI-01	150	2.7	48	48	246	0
CCD	120802	R1B-Split 2	CY8CTMA340-48LQI-01	150	2.7	48	48	245	0
CCD	120802	R1B-Split 3	CY8CTMA340-48LQI-01	150	2.7	48	48	246	0
CCD	120802	R1B-Split 4	CY8CTMA340-48LQI-01	150	2.7	48	48	75	0
CCD	120802	R1B-Split 5	CY8CTMA340-48LQI-01	150	2.7	48	48	171	0
CCD	120802	R1B-Split 6	CY8CTMA340-48LQI-01	150	2.7	48	48	246	0
CCD	120802	R1B-Split 7	CY8CTMA340-48LQI-01	150	2.7	48	48	245	0
CCD	120802	R1B-Split 8	CY8CTMA340-48LQI-01	150	2.7	48	48	76	0
CCD	120802	R2-Split 1	CY8CTMA340-48LQI-01	150	2.07	48	48	248	0
CCD	120802	R2-Split 2	CY8CTMA340-48LQI-01	150	2.07	48	48	344	0
CCD	120802	R2-Split 3	CY8CTMA340-48LQI-01	150	2.07	48	48	353	0
CCD	120802	R2-Split 4	CY8CTMA340-48LQI-01	150	2.07	48	48	354	0
CCD	120802	R2-Split 5	CY8CTMA340-48LQI-01	150	2.07	48	48	340	0
CCD	120802	R2-Split 6	CY8CTMA340-48LQI-01	150	2.07	48	48	304	0
CCD	120802	R2-Split 7	CY8CTMA340-48LQI-01	150	2.07	48	48	35	0
CCD	120803	R1-Split 1	CY8CTMA443-48LQIES3	150	2.07	48	48	538	0
CCD	120803	R1-Split 2	CY8CTMA443-48LQIES3	150	2.07	48	48	790	0
CCD	120803	R1-Split 3	CY8CTMA443-48LQIES3	150	2.07	48	48	790	0
CCD	120803	R1-Split 4	CY8CTMA443-48LQIES3	150	2.07	48	48	900	0
CCD	121202	R1-Split 1	CY8CTMA443-48LQIES3	150	2.07	48	48	826	0
CCD	121202	R1-Split 2	CY8CTMA443-48LQIES3	150	2.07	48	48	190	0



CCD	121202	R1	CY8CTMA443-48LQIES3	150	2.07	48	48	50	0
CCD	121202	R2	CY8CTMA443-48LQIES3	150	2.07	48	48	50	0
CCD	121202	R2-Split 1	CY8CTMA443-48LQIES3	150	2.07	48	48	341	0
CCD	121202	R2-Split 2	CY8CTMA443-48LQIES3	150	2.07	48	48	284	0
CCD	121202	R2-Split 3	CY8CTMA443-48LQIES3	150	2.07	48	48	391	0
CCD	121202	R3	CY8CTMA443-48LQIES3	150	2.07	48	48	49	0
CCD	121202	R3-Split 1	CY8CTMA443-48LQIES3	150	2.07	48	48	645	0
CCD	121202	R3-Split 2	CY8CTMA443-48LQIES3	150	2.07	48	48	370	0
CCD	121202	R4-Split 1	CY8CTMA443-48LQIES3	150	2.07	48	48	628	0
CCD	121202	R4-Split 2	CY8CTMA443-48LQIES3	150	2.07	48	48	377	0
CCD	121202	R5-Split 1	CY8CTMA443-48LQIES3	150	2.07	48	48	538	0
CCD	121202	R5-Split 2	CY8CTMA443-48LQIES3	150	2.07	48	48	790	0
CCD	121202	R5-Split 3	CY8CTMA443-48LQIES3	150	2.07	48	48	790	0
CCD	121202	R5-Split 4	CY8CTMA443-48LQIES3	150	2.07	48	48	900	0
MPD	121406	R1-Split 1	CY14B101LA-ZS45XI	150	3.3	48	48	735	0
MPD	121406	R1-Split 2	CY14B101LA-ZS45XI	150	3.3	48	48	737	0
MPD	121406	R1-Split 3	CY14B101LA-ZS45XI	150	3.3	48	48	25	0
CCD	121903	R1	CY8CTMA500-48LQIES	125	5.75	48	48	50	0
CCD	121903	R1-Split 1	CY8CTMA500-48LQIES	150	2.07	48	48	721	0
CCD	121903	R1-Split 2	CY8CTMA500-48LQIES	150	2.07	48	48	631	0
CCD	121903	R1-Split 3	CY8CTMA500-48LQIES	150	2.07	48	48	194	0
CCD	121903	R1-Split 4	CY8CTMA500-48LQIES	150	2.07	48	48	126	0



CCD	121903	R1C-Split 1	CY8CTMA500-48LQIES	150	2.07	48	48	368	0
CCD	121903	R1C-Split 2	CY8CTMA500-48LQIES	150	2.07	48	48	173	0
CCD	121903	R1C-Split 3	CY8CTMA500-48LQIES	150	2.07	48	48	506	0
CCD	121903	R1C-Split 4	CY8CTMA500-48LQIES	150	2.07	48	48	174	0
CCD	121903	R1C-Split 5	CY8CTMA500-48LQIES	150	2.07	48	48	378	0
CCD	121903	R1D-Split 1	CY8CTMA500-48LQIES	150	2.07	48	48	577	0
CCD	121903	R1D-Split 2	CY8CTMA500-48LQIES	150	2.07	48	48	444	0
CCD	121903	R2A-Split 1	CY8CTMA500-48LQIES	150	2.07	48	48	263	0
CCD	121903	R2A-Split 2	CY8CTMA500-48LQIES	150	2.07	48	48	359	0
CCD	121903	R2A-Split 3	CY8CTMA500-48LQIES	150	2.07	48	48	359	0
CCD	121903	R2A-Split 4	CY8CTMA500-48LQIES	150	2.07	48	48	359	0
CCD	121903	R2A-Split 5	CY8CTMA500-48LQIES	150	2.07	48	48	257	0
CCD	121903	R2B-Split 1	CY8CTMA500-48LQIES	150	2.07	48	48	230	0
CCD	121903	R2B-Split 2	CY8CTMA500-48LQIES	150	2.07	48	48	352	0
CCD	121903	R2C-Split 1	CY8CTMA500-48LQIES	150	2.07	48	48	369	0
CCD	121903	R2C-Split 2	CY8CTMA500-48LQIES	150	2.07	48	48	369	0
CCD	121903	R2C-Split 3	CY8CTMA500-48LQIES	150	2.07	48	48	213	0
CCD	120907	R1-Split 1	CY8CTMA340-48LQI-01	125	2.07	48	48	166	0
CCD	120907	R1-Split 2	CY8CTMA340-48LQI-01	125	2.07	48	48	246	0
CCD	120907	R1-Split 3	CY8CTMA340-48LQI-01	125	2.07	48	48	246	0
CCD	120907	R1-Split 4	CY8CTMA340-48LQI-01	125	2.07	48	48	246	0
CCD	120907	R1-Split 5	CY8CTMA340-48LQI-01	125	2.07	48	48	244	0



CCD	120907	R1-Split 6	CY8CTMA340-48LQI-01	125	2.07	48	48	225	0
CCD	120907	R1-Split 7	CY8CTMA340-48LQI-01	125	2.07	48	48	215	0
CCD	120907	R2-Split 1	CY8C20446A-24LQXIT	150	2.1	48	48	1014	0
CCD	120907	R2-Split 2	CY8C20446A-24LQXIT	150	2.1	48	48	504	0
CCD	122608	R1-Split 1	CY8CTMA443-48LQI	150	6	48	48	251	0
CCD	122608	R1-Split 2	CY8CTMA443-48LQI	150	6	48	48	274	0
CCD	122608	R1-Split 3	CY8CTMA443-48LQI	150	6	48	48	273	0
CCD	122608	R1-Split 4	CY8CTMA443-48LQI	150	6	48	48	157	0
CCD	122608	R1-Split 5	CY8CTMA443-48LQI	150	6	48	48	157	0
CCD	122608	R1-Split 6	CY8CTMA443-48LQI	150	6	48	48	157	0
CCD	122608	R1-Split 7	CY8CTMA443-48LQI	150	6	48	48	206	0
CCD	122608	R1-Split 8	CY8CTMA443-48LQI	150	6	48	48	111	0
CCD	122608	R2-Split 1	CY8CTMA443-48LQI	150	6	48	48	95	0
CCD	122608	R2-Split 2	CY8CTMA443-48LQI	150	6	48	48	186	0
CCD	122608	R2-Split 3	CY8CTMA443-48LQI	150	6	48	48	205	0
CCD	122608	R2-Split 4	CY8CTMA443-48LQI	150	6	48	48	321	0
CCD	122608	R2-Split 5	CY8CTMA443-48LQI	150	6	48	48	320	0
CCD	122608	R2-Split 6	CY8CTMA443-48LQI	150	6	48	48	204	0
CCD	122608	R2-Split 7	CY8CTMA443-48LQI	150	6	48	48	256	0
CCD	122805	R1-Split 1	CY8CTMA443-48LQIES3	150	2.07	48	48	295	0
CCD	122805	R1-Split 2	CY8CTMA443-48LQIES3	150	2.07	48	48	295	0
CCD	122805	R1-Split 3	CY8CTMA443-48LQIES3	150	2.07	48	48	392	0



CCD	122805	R2-Split 1	CY8CTMA443-48LQIES3	150	2.07	48	48	393	0
CCD	122805	R2-Split 2	CY8CTMA443-48LQIES3	150	2.07	48	48	357	0
CCD	124102	R1-Split 1	CY8CTMA500-48LQIES2	150	2.07	48	48	826	0
CCD	124102	R1-Split 2	CY8CTMA500-48LQIES2	150	2.07	48	48	723	0
<b>Summary for Technology: S8</b>		<b>181</b>	<b>records</b>						
<b>Sum</b>								<b>97,591</b>	<b>0</b>
<b>C8</b>									
PSD	MR123072	R1	CY7C65630-56LTXC	125	3.8	96	96	697	0
<b>Summary for Technology: C8</b>		<b>1</b>	<b>records</b>					<b>697</b>	<b>0</b>
<b>R9</b>									
MPD	MR113070	R1A	CY7C1350G-200AXC	150	2.25	48	48	300	0
MPD	MR113070	R1	CY7C1350G-200AXC	150	2.25	48	48	10080	0
MPD	MR114054	R1	CY7C1460AV33-167AXI	150	2.25	48	48	797	0
MPD	MR114062	R1	CY7C1380D-167AXC	150	2.25	264	264	997	0
MPD	MR122066	R1	CY7C1350G-200AXC	150	2.25	48	48	999	0
MPD	MR121067	R1	CY7C1380D-167AXIT	150	2.25	48	48	864	0
MPD	MR123061	R1	CY7C1380D-167AXC	150	2.25	48	48	998	0
MPD	MR124077	R1	7C14722BC	125	2.25	96	96	2625	0
<b>Summary for Technology: R9</b>		<b>8</b>	<b>records</b>						
<b>Sum</b>								<b>17,660</b>	<b>0</b>
<b>R7</b>									
MPD	MR114060	R1	CY7C1049CV33-10VXCT	150	2.3	48	48	1064	0



PSD	MR123056	R1	CY7C1019CV33-10ZXAT	150	2.3	24	24	998	0
MID	114908	R1	CY7C1021CV33	150	2.3	48	48	1700	0
MID	114908	R1A	CY7C1021CV33	150	2.3	48	48	1700	0
MID	114908	R2	CY7C1021CV26	150	2.3	48	48	1700	0
MID	114908	R2A	CY7C1021CV33	150	2.3	48	48	1700	0
MID	114908	R3	CY7C1021CV26	150	2.3	48	48	1699	0
MID	114908	R3A	CY7C1021CV26	150	2.3	48	48	1699	0

**Summary for Technology: R7**

**8 records**

**Sum 12,260 0**

**S4**

CCD	MR114052	R1	CP6832AMT	125	5.5	96	96	1071	0
CCD	MR121070	R1	CY8C24533-24PVXI	125	5.5	96	96	1000	0
CCD	MR122063	R1	CY8C24533-24PVXI	150	5.5	96	96	1000	0
CCD	MR114050	R1	CY8C24533-24PVXI	125	5.5	96	96	1000	0
CCD	MR122065	R1	CY8C27443-24PVXIT	125	5.5	96	96	1000	0
CCD	MR121063	R1	CG6865AS	125	5.5	96	96	1000	0
CCD	121405	R1	CY8C21534B-24PVXI	125	5.5	96	96	1499	0
CCD	122003	R1	CY8C21534B-24PVXI	150	5.5	48	48	1020	0
CCD	122003	R2	CY8C21534B-24PVXI	150	5.5	48	48	1020	0
CCD	122003	R3	CY8C21534B-24PVXI	150	5.5	48	48	1018	0
MPD	MR114053	R1	CY8C21534-12PVXET	125	5.5	48	48	682	0
MPD	MR114053	R2	CY8C21534-24PVXAT	150	5.5	48	48	525	0



CCD	MR124064	R1	CY8C24533-24PVXI	125	5.5	96	96	1000	0	
<b>Summary for Technology: S4</b>		<b>13</b>	<b>records</b>							
<b>Sum</b>								<b>12,835</b>	<b>0</b>	
<b>R52</b>										
MPD	MR112076	R1	CY7C1399BN-12VXI	150	3.8	48	48	300	0	
MPD	120409	R1-Split 1	CY2309CSXC-1	150	3.8	48	48	504	0	
MPD	120409	R1-Split 2	CY2309CSXC-1	150	3.8	48	48	504	0	
MPD	120409	R1-Split 3	CY2309CSXC-1	150	3.8	48	48	492	0	
MPD	MR121074	R1	CY7C1399BN-12VXCT	150	3.8	48	48	700	0	
<b>Summary for Technology: R52</b>		<b>5</b>	<b>records</b>							
<b>Sum</b>								<b>2,500</b>	<b>0</b>	
<b>B53</b>										
DCD	114004	R4-Split 1	CYRF6936-40LTXCKG	125	3.8	96	96	499	0	
DCD	114004	R4-Split 2	CYRF6936-40LTXCKG	125	3.8	96	96	500	0	
DCD	114004	R5-Split 1	CYRF6936-40LTXCKG	125	3.8	96	96	500	0	
DCD	114004	R5-Split 2	CYRF6936-40LTXCKG	125	3.8	96	96	500	0	
<b>Summary for Technology: B53</b>		<b>4</b>	<b>records</b>							
<b>Sum</b>								<b>1,999</b>	<b>0</b>	
<b>R42</b>										
MID	MR114048	R1	CY62256NLL-55SNXI	125	5.75	96	96	1000	0	
MPD	MR114077	R1	CY62256NLL-55SNXI	125	5.75	96	96	1000	0	
MPD	MR123058	R1	CY62256NLL-70SNXCT	125	5.75	96	96	1000	0	



**Summary for Technology: R42**

**3**

**records**

**Sum**

**3,000**

**0**

**R95**

MPD	121104	R1	CY62137FV30LL-45BVXI	125	1.85	96	96	3948	0
MPD	121104	R2	CY62137FV30LL-45BVXI	125	1.85	96	96	4112	0
MPD	121104	R3	CY62137FV30LL-45BVXI	125	1.85	96	96	3912	0
MPD	MR121066	R1	CY62146EV30LL-45ZSXI	125	1.85	96	96	1000	0
MPD	MR114082	R1	CY62126EV30LL-55ZSXE	125	1.85	48	48	1000	0
MPD	MR123066	R2	CY62157EV30LL-45ZSXIT	125	1.85	96	96	484	0
MPD	MR123066	R1	CY62157EV30LL-45ZSXIT	125	1.85	96	96	516	0
MPD	MR123067	R1	CY62137FV30LL-55ZSXET	125	1.85	48	48	1000	0

**Summary for Technology: R95**

**8**

**records**

**Sum**

**15,972**

**0**

**R28**

MPD	120201	R5	CY7C136-25NXC	150	2.8	48	48	999	0
-----	--------	----	---------------	-----	-----	----	----	-----	---

**Summary for Technology: R28**

**1**

**records**

**Sum**

**999**

**0**





# Summary Detail -- LFR Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
<b>C8</b>												
	DCD	120604	R1	CY7C68003-24LQXI	150	2.07	500	500	116	0		
<b>Summary for Technology: C8</b>			<b>1</b>	<b>records</b>					<b>116</b>	<b>0</b>		
<b>Sum</b>												
<b>LL65</b>												
	DCD	MR112071	R1	CY7C1512KV18-250BZXC	125	2.05	1000	1000	299	0		
	DCD	112604	R1A-Split 1	CY7C2565XV18-633BZXC	125	1.95	168	168	118	0		
	DCD	112604	R1A-Split 2	CY7C2565XV18-633BZXC	125	1.95	216	216	58	0		
	MPD	MR113063	R1A	CY7C1512KV18-250BZXI	125	2.05	1000	1000	300	0		
	DCD	114603	R3	CYUSB3014-BZXIES	125	3.795	1000	1000	180	0		
	DCD	114603	R2	CYUSB3014-BZXIES	125	3.795	1000	1000	180	0		
	MPD	120610	R1	CY7C1512KV18-250BZXC	125	1.95	1000	1000	116	0		
	MPD	MR114084	R2	CY7C1512KV18-300BZXC	125	1.95	1000	1000	272	0		
	MPD	MR121071	R2	CY7C1312KV18-250BZXC	125	1.95	1000	1000	300	0		
	DCD	112109	R1	CYWB0263BB-FNXIES	125	3.795	1000	1000	179	0		
	DCD	114603	R1	CYUSB3014-BZXIES	125	3.79	1000	1000	179	0		
	DCD	114701	R2	CYWB0263BB-FNXIES	150	3.75	1000	1000	117	0		
	MPD	120609	R1A	CY7C16131KV18-300BZXC	150	1.95	500	500	114	0		
	MPD	120609	R1	CY7C16131KV18-300BZXC	125	1.95	1000	1000	116	0		







CCD	121202	R5	CY8CTMA443-48LQIES3	150	2.07	500	500	126	0
MPD	122802	R2A	CY14ME064Q2A-SXI	125	5	168	168	108	0
MPD	122802	R2B	CY14ME064Q2A-SXI	125	5	168	168	108	0
MPD	122802	R3A	CY14MB064Q2A-SXI	125	3	168	168	88	0
MPD	122802	R3B	CY14MB064Q2A-SXI	125	3	168	168	88	0
MPD	MR124078	R1	7C1436B5AC	125	3.0	332	332	88	0
MPD	MR124078	R2	7C1436E5AC	125	5.0	332	332	108	0
MPD	MR124078	R3	7C1436B5AC	125	3.0	332	332	88	0
MPD	MR124078	R4	7C1436E5AC	125	5.0	332	332	108	0
MPD	MR124079	R1	7C1431B5AC	125	3.0	332	332	80	0
MPD	MR124079	R2	7C1436E5AC	125	5.0	332	332	100	0
MID	113005	R2E	CY14MB064Q2B-SXI	150	5.5	168	168	88	0
MID	113005	R2C	CY14ME064Q2B-SXI	150	5.5	500	500	108	0
DCD	114108	R1	CYONSTB2010-BFXC	150	3.8	500	500	115	0
DCD	114108	R2	CYONSTB2010-BFXC	150	3.8	500	500	116	0
DCD	114108	R3	CYONSTB2010-BFXC	150	3.8	500	500	116	0
CCD	120205	R1	CY8CTMA300E-48LQXI	150	5.75	500	500	114	0
CCD	120402	R1	CY8C3866AXI-040ES4	150	2.07	500	500	409	0
CCD	120402	R2	CY8C3866AXI-040ES4	150	2.07	500	500	450	0
CCD	120501	R2	CY8C5868AXI-LP035ES	150	2.07	500	500	126	0
CCD	120803	R2-Split 2	CY8CTMA443-48LQIES3	150	5.5	500	500	120	0
CCD	120803	R3	CY8CTMA443-48LQIES3	150	5.5	500	500	124	0



CCD	120803	R4	CY8CTMA443-48LQIES3	150	5.5	500	500	126	0		
CCD	121202	R1	CY8CTMA443-48LQIES3	150	2.07	500	500	116	0		
CCD	121202	R2	CY8CTMA443-48LQIES3	150	2.07	500	500	126	0		
CCD	121202	R3	CY8CTMA443-48LQIES3	150	2.07	500	500	124	0		
CCD	121202	R4	CY8CTMA443-48LQIES3	150	2.07	500	500	126	0		
MPD	121406	R1	CY14B101LA-ZS45XI	150	3.3	500	500	116	0		
CCD	121903	R1	CY8CTMA500-48LQIES	150	5.75	500	500	122	1	Metal 4 Short	121903-1AL2
CCD	122805	R1	CY8CTMA443-48LQIES3	150	2.07	500	500	126	0		
CCD	124102	R1	CY8CTMA500-48LQIES2	150	2.07	500	500	120	0		
PSD	124802	R5	CY8CTMA884AE-12	150	2.07	408	408	77	0		
PSD	124802	R6	CY8CTMA616AA-12	150	2.07	408	408	83	0		
PSD	124802	R7	CY8CTMA616AA-23	150	2.07	408	408	88	0		
CCD	MR122071	R1	CY8C20466A-24LQXI	150	2.07	500	500	297	0		
MPD	MR123060	R1	CY14B101LA-ZS45XI	150	3.3	500	500	300	0		

**Summary for Technology: S8**

**37 records**

**Sum 5,003 1**

**S4**

CCD	MR112041	R1	CY8C24533-24PVXI	125	5.5	1000	1000	300	0		
CCD	MR113044	R1	CY8C24423A-24PVXI	125	5.5	1000	1000	329	0		
CCD	MR113042	R1	CY8C24533-24PVXI	125	5.5	1000	1000	299	0		
CCD	MR114052	R1	CP6832AMT	125	5.5	192	192	300	0		
CCD	MR104039	R1	CY8C24533-24PVXI	125	5.5	480	480	760	0		



MPD	MR121070	R1	CY8C24533-24PVXI	125	5.5	1000	1000	300	0
CCD	MR114050	R1	CY8C24533-24PVXI	125	5.5	1000	1000	300	0
CCD	MR122063	R1	CY8C24533-24PVXI	125	5.5	1000	1000	299	0
CCD	MR122065	R1	CY8C27443-24PVXIT	125	5.5	1000	1000	300	0
CCD	MR121063	R1	CG6865AS	125	5.5	1000	1000	295	0
MPD	121304	R1	CY8CTMA120-56LWXA	125	5.5	1024	1024	80	0
MPD	121304	R2	CY8CTMA120-56LWXA	125	5.5	1024	1024	80	0
CCD	121405	R1	CY8C21534B-24PVXI	125	5.5	1000	1000	116	0
MPD	121408	R4	CY8C21534B-24PVXI	125	5.5	1000	1000	116	0

**Summary for Technology: S4 14 records**

**Sum 3,874 0**

**R95**

MPD	MR111077	R2	CY62146EV30LL-45ZSXI	125	1.85	168	168	300	0
MPD	MR114082	R1	CY62126EV30LL-55ZSXE	125	1.85	408	408	300	0
MPD	MR121066	R1	CY62146EV30LL-45ZSXI	125	1.85	168	168	300	0
MPD	MR123066	R1	CY62157EV30LL-45ZSXIT	125	1.85	168	168	300	0
MPD	MR123067	R1	CY62137FV30LL-55ZSXET	150	1.85	408	408	299	0

**Summary for Technology: R95 5 record**

**Sum 1,499 0**

**R7**

MPD	MR114060	R1	CY7C1049CV33-10VXCT	150	2.3	500	500	299	0
MPD	114908	R1	CY7C1021CV33	150	2.3	500	500	86	0



MPD	114908	R2	CY7C1021CV26	150	2.3	500	500	86	0
MPD	114908	R3A	CY7C1021CV26	150	2.3	500	500	85	0
PSD	MR123056	R1	CY7C1019CV33-10ZXAT	150	2.3	408	408	299	0
<b>Summary for Technology: R7</b>		<b>5</b>	<b>record</b>						
<b>Sum</b>								<b>855</b>	<b>0</b>
<b>0.8um</b>									
MPD	QCI122003	R1	STK12C68-5C35M	125	5.5	1000	1000	72	0
<b>Summary for Technology: 0.8um</b>		<b>1</b>	<b>record</b>						
<b>Sum</b>								<b>72</b>	<b>0</b>
<b>R42</b>									
MID	MR114048	R1	CY62256NLL-55SNXI	125	5.75	1000	1000	300	0
MPD	MR114077	R1	CY62256NLL-55SNXI	125	5.75	1000	1000	298	0
MPD	MR123058	R1	CY62256NLL-70SNXCT	125	5.75	168	168	300	0
<b>Summary for Technology: R42</b>		<b>3</b>	<b>records</b>						
<b>Sum</b>								<b>898</b>	<b>0</b>
<b>R28</b>									
MPD	120201	R5	CY7C136-25NXC	150	2.8	500	116	116	0
<b>Summary for Technology: R28</b>		<b>1</b>	<b>records</b>						
<b>Sum</b>								<b>116</b>	<b>0</b>



## Summary Detail -- DRET Performance Over Time

TECHNOLOGY	DIVISION	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	DURATION	SS	REJECT	FA	COMMENTS
S4												
	CCD	MR102077	R1	CY8C24533-24PVXI	175	0	3500	3500	80	0		
	CCD	MR113026	R1	CY8C29466-24PVXI	175	0	2000	2000	80	0		
	CCD	MR113027	R1	CY8C24533-24PVXI	175	0	3500	3500	80	0		
	CCD	MR112041	R1	CY8C24533-24PVXI	175	0	2000	2000	80	0		
	CCD	MR112041	R1	CY8C24533-24PVXI	150	0	3500	3500	80	0		
	CCD	MR113026	R1	CY8C29466-24PVXI	150	0	3500	3500	80	0		
	CCD	MR113027	R1	CY8C24533-24PVXI	150	0	3500	3500	80	0		
	CCD	MR114090	R1	CY8C29466-24PVXI	150	0	3500	3500	80	0		
	CCD	MR114090	R1	CY8C29466-24PVXI	175	0	3500	3500	79	0		
	CCD	MR104039	R1	CY8C24533-24PVXI	175	0	3500	3500	80	0		
	CCD	MR114093	R1	CY8C21534-24PVXI	175	0	1000	1000	79	0		
	CCD	MR114093	R1	CY8C21534-24PVXI	150	0	2000	2000	80	0		
	CCD	MR121081	R1	CY8C24533-24PVXI	150	0	2000	2000	80	0		
	CCD	MR121081	R1	CY8C24533-24PVXI	175	0	2000	2000	80	0		
	PSD	MR122085	R1	CY8C29466-24PVXI	150	0	1000	1000	80	0		
	CCD	MR123073	R2	CY8C21534B-24PVXI	175	0	288	288	75	0		
	CCD	122003	R1	CY8C21534B-24PVXI	175	0	500	500	80	0		
	CCD	122003	R1	CY8C21534B-24PVXI	150	0	1000	1000	80	0		





CCD	122003	R2	CY8C21534B-24PVXI	175	0	500	500	80	0
CCD	122003	R2	CY8C21534B-24PVXI	150	0	1000	1000	80	0
CCD	MR112055	R1	CY8C29466-24PVXI	175	0	3500	3500	79	0
CCD	MR112055	R1	CY8C29466-24PVXI	150	0	3500	3500	80	0
CCD	MR114091	R1	CY8C29466-24PVXIT	150	0	3500	3500	80	0
CCD	MR114091	R1	CY8C29466-24PVXIT	175	0	3500	3500	80	0
CCD	MR122076	R1	CY8C27443-24PVXIT	175	0	2000	2000	80	0
CCD	MR122076	R1	CY8C27443-24PVXIT	150	0	2000	2000	80	0
CCD	MR122085	R1	CY8C29466-24PVXI	175	0	1000	1000	80	0
CCD	MR123073	R2	CY8C21534B-24PVXI	150	0	1000	1000	75	0

**Summary for Technology:  
S4**

**28 records**

**Sum**

**2,227 0**

**S8**

CCD	MR111079	R1	CY8C20446A-24LQXIT	150	0	2000	2000	80	0
CCD	MR111079	R1	CY8C20446A-24LQXIT	175	0	1000	1000	80	0
CCD	MR112062	R1	CY8C20446A-24LQXIT	175	0	2000	2000	79	0
CCD	MR112062	R1	CY8C20446A-24LQXIT	150	0	2000	2000	80	0
CCD	MR113082	R1	CY8C20436A-24LQXIT	175	0	1000	1000	80	0
CCD	120402	R1	CY8C3866AXI-040ES4	150	0	1500	1500	79	0
CCD	120402	R2	CY8C3866AXI-040ES4	150	0	1000	1000	81	0
CCD	121303	R1	CY8CTMA443-48LQIES3	150	0	1000	1000	80	0
CCD	121303	R2	CY8CTMA443-48LQIES3	150	0	1000	1000	80	0



CCD	MR114086	R1	CY8C20446A-24LQXIT	150	0	2000	2000	77	0
CCD	MR114086	R1	CY8C20446A-24LQXIT	175	0	2000	2000	78	0
CCD	MR114087	R1	CY8C20446A-24LQXIT	150	0	2000	2000	72	0
CCD	MR114087	R1	CY8C20446A-24LQXIT	175	0	1000	1000	5	0
CCD	MR114087	R1	CY8C20446A-24LQXIT	150	0	2000	2000	8	0
CCD	MR121078	R2	CY8C20446A-24LQXIT	175	0	288	288	80	0
CCD	MR122082	R1	CY8CTMG200A-32LQXI	175	0	500	500	79	0
CCD	121903	R1	CY8CTMA500-48LQIES	150	0	1000	1000	80	0
CCD	MR121076	R1	CY8C29466-24PVXI	150	0	3500	3500	80	0
CCD	MR121076	R1	CY8C29466-24PVXI	175	0	3500	3500	80	0
CCD	MR123076	R1	CY8C20436A-24LQXI	150	0	1000	1000	79	0
CCD	MR121078	R2	CY8C20446A-24LQXIT	150	0	1000	1000	80	0
CCD	MR121085	R1	CY8CTMG200A-32LQXI	175	0	500	500	80	0
CCD	MR121085	R1	CY8CTMG200A-32LQXI	150	0	1000	1000	80	0
CCD	MR122079	R1	CY8C20446A-24LQXIT	175	0	500	500	80	0
CCD	MR122079	R1	CY8C20446A-24LQXIT	150	0	1000	1000	80	0
CCD	MR122082	R1	CY8CTMG200A-32LQXI	150	0	1000	1000	79	0
CCD	MR123079	R1	CY8CTST242-LQI-01T	175	0	408	408	73	0
CCD	MR123079	R1	CY8CTST242-LQI-01T	150	0	1000	1000	78	0
CCD	121303	R1	CY8CTMA443-48LQIES3	175	0	76	76	79	0
CCD	121303	R2	CY8CTMA443-48LQIES3	175	0	152	152	80	0
CCD	112007	R1	CY8C20446AS-24LQXI	150	0	1000	1000	80	0



CCD	112007	R2	CY8C20446AS-24LQXI	150	0	1000	1000	80	0
CCD	112007	R3	CY8C20446AS-24LQXI	150	0	1000	1000	80	0
CCD	120501	R1	CY8C5888AXI-LP061ES	150	0	1000	1000	85	0
CCD	121202	R6	CY8CTMA443-48LQIES3	150	0	1000	1000	80	0
CCD	121202	R7	CY8CTMA443-48LQIES3	150	0	1000	1000	80	0
CCD	121202	R8	CY8CTMA443-48LQIES3	150	0	1000	1000	80	0
CCD	122805	R1	CY8CTMA443-48LQIES3	175	0	152	152	84	0

**Summary for Technology:  
S8**

**38 records**

**Sum**

**2,875 0**



FROM: 12/31/2011

TO: 12/30/2012

## Summary Detail -- HAST Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
<b>UFBGA (Pb-free)</b>											
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	130	5.5	128	77	0		
BU84AAAAAL	G	123605	R1	CY8CTMA1036BUI-33ES2	130	5.5	192	70	0		
BU84AAAAAL	G	123605	R2	CY8CTMA1036BUI-33ES2	130	5.5	128	77	0		
BU84AAAAAL	G	123605	R2	CY8CTMA1036BUI-33ES2	130	5.5	192	72	0		
BU84AAAAAL	G	123605	R3	CY8CTMA1036BUI-33ES2	130	5.5	128	79	0		
BU84AAAAAL	G	123605	R3	CY8CTMA1036BUI-33ES2	130	5.5	192	74	0		
BU84ABAAAL	AC	123603	R1	CY8CTMA1036BUI-33ES2	130	5.5	128	75	0		
BU84ABAAAL	AC	123603	R1	CY8CTMA1036BUI-33ES2	130	5.5	192	70	0		
BU84ABAAAL	AC	123603	R2	CY8CTMA1036BUI-33ES2	130	5.5	128	80	0		
BU84ABAAAL	AC	123603	R2	CY8CTMA1036BUI-33ES2	130	5.5	192	75	0		
BU84ABAAAL	AC	123603	R3	CY8CTMA1036BUI-33ES2	130	5.5	128	80	0		
BU84ABAAAL	AC	123603	R3	CY8CTMA1036BUI-33ES2	130	5.5	196	75	0		



**Summary for Package Family: UFBGA (Pb-free)**

**12**

**records**

**Sum**

**904 0**

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

BK121BGAGL	RA	114603	R2	CYUSB3014-BZXIES	130	0	128	80	0
BK48DJALL	G	MR114042	R2	CY62177DV30LL-55BAXI	110	3.6	264	30	0
BK48DJALL	G	MR121049	R2	CY62177DV30LL-55BAXI	130	3.6	128	30	0

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

**3**

**records**

**Sum**

**140 0**

**FBGA (1.0-1.27)**

BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	130	1.95	128	30	0
------------	----	----------	----	---------------------	-----	------	-----	----	---

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

**1**

**records**

**Sum**

**30 0**

**FBGA (1.0-1.27, Pb-free)**

BW165RTALL	RA	120609	R1-Split 1	CY7C16131KV18-300BZXC	130	1.95	128	40	0
BW165RTALL	RA	120609	R1-Split 2	CY7C16131KV18-300BZXC	130	1.95	128	40	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	130	1.95	192	25	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	130	1.95	500	20	0
BW165RTALL	RA	120609	R2- Split 1	CY7C16131KV18-300BZXC	130	1.95	128	40	0
BW165RTALL	RA	120609	R2- Split 2	CY7C16131KV18-300BZXC	130	1.95	128	40	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	130	1.95	192	25	0



BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	130	1.95	128	80	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	130	1.95	192	25	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	130	1.95	500	25	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	130	1.95	128	80	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	130	1.95	192	25	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	130	3.6	128	79	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	130	3.6	192	50	0
BW165BUALL	G	120612	R1-Split 1	CY7C1512KV18-250BZXC	130	1.8	128	26	0
BW165BUALL	G	120612	R1-Split 2	CY7C1512KV18-250BZXC	130	1.8	128	55	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	130	1.8	192	25	0
BW165BUALL	G	120612	R2-Split 1	CY7C1512KV18-250BZXC	130	1.8	128	25	0
BW165BUALL	G	120612	R2-Split 2	CY7C1512KV18-250BZXC	130	1.8	128	55	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	130	1.8	192	25	0
BW165BUALL	G	120612	R3-Split 2	CY7C1512KV18-250BZXC	130	1.8	128	25	0
BW165BUALL	G	120612	R3 -Split 1	CY7C1512KV18-250BZXC	130	1.8	128	54	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	130	1.8	192	25	0
<b>Summary for Package Family: FBGA (1.0-1.27, Pb-free)</b>			<b>23</b>	<b>records</b>					
<b>Sum</b>								<b>909</b>	<b>0</b>
<b>FCBGA</b>									
361FCBGA	G	112002	R8	7C1653KTC	110	1.95	264	10	0



361FCBGA	G	112002	R7	7C1653KTC	110	1.95	264	10	0
----------	---	--------	----	-----------	-----	------	-----	----	---

361FCBGA	G	112002	R6	7C1653KTC	110	1.95	264	10	0
----------	---	--------	----	-----------	-----	------	-----	----	---

**Summary for Package Family: FCBGA 3 records**

**Sum 30 0**

**PDIP (Pb-Free)**

PZ183DPBGN	RA	MR111054	R1	CS6632AF	130	5.5	128	30	0
------------	----	----------	----	----------	-----	-----	-----	----	---

PZ183DPDGN	RA	MR121012	R1	CP6238BM	130	5.5	128	30	0
------------	----	----------	----	----------	-----	-----	-----	----	---

PZ183DPDGN	RA	MR123023	R1	CY7C63723C-PXC	130	5.5	128	30	0
------------	----	----------	----	----------------	-----	-----	-----	----	---

PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	130	5.5	128	30	0
------------	----	----------	----	----------------	-----	-----	-----	----	---

PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	130	5.25	128	30	0
------------	---	----------	----	-----------------	-----	------	-----	----	---

PZ283ACAGL	X	MR121051	R1	CY7C199CN-15PXC	130	5.5	128	30	0
------------	---	----------	----	-----------------	-----	-----	-----	----	---

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

**Sum 180 0**

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

LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	130	5.25	192	39	0
------------	---	--------	----	------------------	-----	------	-----	----	---

LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	130	5.25	192	40	0
------------	---	--------	----	-----------------	-----	------	-----	----	---

LG16ABAALL	L	MR114030	R3	CG7471AMT	130	5.25	128	30	0
------------	---	----------	----	-----------	-----	------	-----	----	---

LG16ABAALL	L	MR114032	R3	CG7471AM	130	3.25	128	30	0
------------	---	----------	----	----------	-----	------	-----	----	---

LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	130	5.25	128	79	0
------------	---	----------	----	-------------------	-----	------	-----	----	---

LG16AQAAAL	G	NR121001	R6	CY8C20236A-24LKXI	130	5.25	128	78	0
------------	---	----------	----	-------------------	-----	------	-----	----	---



LG16AQAAAL	G	NR121001	R7	CY8C20236A-24LKXI	130	5.25	128	78	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R5	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R4	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R8	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R9	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R10	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R11	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R12	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R13	CY8C20236A-24LKXI	130	5.25	128	79	0
LG16AQAAAL	G	NR121001	R14	CY8C20236A-24LKXI	130	5.25	128	78	0
LG16AQAAAL	G	NR121001	R15	CY8C20236A-24LKXI	130	5.25	128	78	0
LG16AQAAAL	G	MR122031	R1	CY7C64315-16LKXCT	130	0	128	30	0

**Summary for Package Family: QFN 20 records**  
**(COL, 0.6mm, Saw Type, Pb-free)**  
**Sum 1350 0**

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

LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	130	3.63	96	30	0
LY56DGAGL	L	MR114035	R2	CY8CTMG120-56LFXA	130	5.25	128	30	0
LY56AGAGL	L	MR123008	R1	CY7C65630-56LFXAT	130	3.63	96	30	0





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

**3 records**

**Sum 90 0**

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

LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	130	5.5	192	40	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	130	5.5	192	40	0
LT40ABAAAL	G	114904	R2	CYRF6986-40LTXC	130	3.03	128	79	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	130	5.25	144	40	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	130	3.8	192	45	0
LT68YAAAAL	G	114906	R2-Split1	CY8C3866LTI-030	130	5.5	192	40	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	130	5.25	128	30	0
LT48AQAAAL	G	MR114071	R1	CY8C20636A-24LTXI	130	5.25	128	30	0
LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	130	5.25	128	29	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	130	5.25	128	30	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	130	5.25	128	24	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	130	5.25	128	25	0
LT32BAABGL	RA	120204	R1	CG7032AA	130	5.25	192	30	0
LT32BABCGL	RA	120204	R2	CS7224AA	130	5.25	128	79	0
LT32BABCGL	RA	120204	R2	CS7224AA	130	5.25	192	40	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	130	5.25	192	40	0
LT68ADAAGL	RA	120206	R2	CY8C3865LTI-014	130	5.5	192	25	0



LT68ADAAGL	RA	120206	R3	CY8C3865LTI-014	130	5.5	192	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	130	5.25	128	24	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	130	5.25	128	28	0
LT48CQAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	130	3.63	128	79	0
LT48CQAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	130	3.63	128	79	0
LT48CQAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	130	3.63	128	78	0
LT48DQAAAL	G	114905	R3	CY8C3866LTI-068	130	5.5	192	70	0
LQ48AEAAAL	RA	121202	R1	CY8CTMA443-48LQIES3	130	5.5	128	79	0
LQ48AEAAAL	RA	121202	R2	CY8CTMA443-48LQIES3	130	5.5	128	79	0
LQ48AEAAAL	RA	121202	R3	CY8CTMA443-48LQIES3	130	5.5	128	79	0
LQ48AEAAAL	RA	121202	R4	CY8CTMA443-48LQIES3	130	5.5	128	79	0
LQ48AEAAAL	RA	121202	R5	CY8CTMA443-48LQIES3	130	5.5	128	79	0
LT48CQAAAL	G	MR121009	R1	CYWUSB6935-48LTXIKG	130	3.6	128	30	0
LT32BAABGL	RA	MR122002	R1	CY8C21434-24LTXIT	130	5.25	128	30	0
LT56YAAAAL	G	MR122027	R1	CY7C65640A-LTXC	130	3.8	128	30	0
LQ32QAAAAL	G	MR122028	R1	CY8C20446A-24LQXI	130	5.25	128	30	0
LT56BEAAGL	RA	MR123015	R1	CY8C24794-24LTXI	130	5.25	128	30	0
LQ48AEAAAL	RA	NR122003	R1	CY8CTMA463-48LQI	130	2.07	128	25	0
LQ48AEAAAL	RA	NR122003	R2	CY8CTMA463-48LQI	130	2.07	128	25	0
LQ48AEAAAL	RA	NR122003	R3	CY8CTMA463-48LQI	130	2.07	128	25	0



LQ48ADAAAL	G	NR122005	R1	CY8CTMA463-48LQI	130	2.07	128	25	0
LQ48ADAAAL	G	NR122005	R2	CY8CTMA463-48LQI	130	2.07	128	25	0
LQ48ADAAAL	G	NR122005	R3	CY8CTMA463-48LQI	130	2.07	128	25	0
LQ48AEAAAL	RA	122805	R1A	CY8CTMA443-48LQIES3	130	5.5	128	80	0
LQ48AQAAAL	G	MR121005	R1	CY8CTMA340-48LQI-01T	130	5.5	128	28	0
LQ48AQAAAL	G	MR124012	R1	CY8CTMA340-48LQI-01	130	5.5	128	28	0
LT56BEAAGL	RA	MR124014	R1	CS6651DAT	130	5.25	128	30	0
<b>Summary for Package Family: QFN (Saw Type, Pb-Free)</b>			<b>44</b>	<b>records</b>					
<b>Sum</b>								<b>1910</b>	<b>0</b>
<b>SNC (Pb-Free)</b>									
SY2831BHN	JT	MR123036	R1	CG7261AT	130	5.5	96	30	0
<b>Summary for Package Family: SNC (Pb-Free)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>30</b>	<b>0</b>
<b>SOIC</b>									
S1615KDAGN	RA	MR123017	R1	CY2309SC-1H	130	3.8	128	29	0
<b>Summary for Package Family: SOIC</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>29</b>	<b>0</b>
<b>SOIC (Pb Free)</b>									
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	130	5.25	128	30	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	130	5.25	128	80	0



SZ1615FAL	T	122206	R1	CY8C20237-24SXI	130	5.25	192	25	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	130	5.25	128	79	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	130	5.25	192	25	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	130	5.25	128	80	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	130	5.25	192	25	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	130	3.6	96	30	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	130	5.5	96	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	130	3.63	128	30	0
SZ324513AN	JT	MR122012	R1	CY62128BNLL-70SXET	130	5.5	96	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	130	3.63	128	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	110	3.6	128	29	0
SZ2035BAAL	JT	MR122048	R1	CY8C27243-24SXIT	130	5.25	128	30	0
SZ815CGAAS	M	MR123007	R1	CY2305CSXA-1HT	130	3.63	96	30	0
SZ815CGAAS	M	MR124031	R1	CY2305CSXA-1HT	130	3.63	96	30	0

**Summary for Package Family: SOIC (Pb Free)**

**16 records**

**Sum**

**613 0**

**SOJ (Pb-Free)**

VZ2847AAAR	OP	MR114074	R1	CY7C107D-10VXI	130	5.5	128	30	0
VZ28311KLL	R	MR113064	R1	CY7C1399BN-15VXAT	130	3.63	96	30	0
VZ32314CLL	JT	MR121024	R1	CY7C1009D-10VXI	130	5.5	128	30	0



VZ444ADCLN	JT	MR122038	R1	CY7C1041D-10VXIT	130	5.5	128	30	0
VZ28313CLN	JT	MR122050	R1	CY7C1399BN-12VXI	130	5.5	128	30	0
VZ32314CLL	JT	MR123033	R1	CY7C1018DV33-10VXIT	130	3.63	128	30	0

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

**Sum 180 0**

**SSOP (Pb-Free)**

SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	130	5.25	128	30	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	130	5.25	128	27	0
SP2822BGL	M	MR122006	R1	CY8C21534-12PVXET	130	5.25	96	30	0
SP282ABBGN	RA	MR122004	R1	CY8C27443-24PVXIT	130	5.25	128	30	0
SP483EBCAL	JT	MR114073	R2	CY8C29666-24PVXI	130	5.25	128	30	0
SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	130	3.63	128	30	0
SP563DBC GN	JT	MR122025	R1	CY7C68013A-56PVXC	130	3.63	128	30	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	130	5.25	96	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	130	5.25	128	30	0
SP483FBKGN	RA	MR122003	R1	CY8C20536A-24PVXIT	130	5.25	128	30	0
SP483FBKGN	RA	MR121019	R2	CY8C20536A-24PVXIT	130	5.25	128	30	0
SP28214GL	T	MR124035	R1	CY8C24423A-24PVXI	130	5.25	128	30	0
SP483FBKGN	RA	MR123016	R1	CY8C20546A-24PVXIT	130	5.25	128	30	0

**Summary for Package Family: SSOP (Pb-Free) 13 records**



<b>Sum</b>								<b>387</b>	<b>0</b>
<b>TQFP</b>									
A64IBAABL	JT	NR113005	R3	CY7C144AV-25ACKJ	130	5.5	128	25	0
<b>Summary for Package Family: TQFP</b>			<b>1</b>	<b>record</b>					
<b>Sum</b>								<b>25</b>	<b>0</b>
<b>TQFP (Pb-Free)</b>									
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	130	3.3	128	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	130	3.63	128	30	0
AZ100SECGL	JT	110601	R1	CY7CS65T5A-125AXI	130	3	256	88	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	130	3.3	128	30	0
<b>Summary for Package Family: TQFP (Pb-Free)</b>			<b>4</b>	<b>records</b>					
<b>Sum</b>								<b>178</b>	<b>0</b>
<b>TSOP (Pb-free)</b>									
ZT28R2ABGN	JT	MR121061	R1	CY62256NLL-55ZXAT	130	5.5	96	30	0
ZT28R2ABGN	JT	MR122035	R2	CY62256NLL-55ZXAT	130	5.5	128	30	0
ZT28R2ABGN	JT	MR123009	R1	CY62256NLL-55ZXAT	130	5.5	128	30	0
ZT28R2ABGN	JT	MR124039	R1	CY62256NLL-55ZXAT	130	5.5	128	30	0
<b>ZT28R2BCLN</b>	JT	MR114004	R2	CY62256VNLL-70ZXIT	130	3.63	128	30	0
ZT32RABALL	T	MR122042	R1	CY62128EV30LL-45ZXIT	130	3.6	128	30	0
ZT32RAEDLN	RA	MR123031	R1	CY62128EV30LL-45ZXI	130	3.6	128	30	0



ZT32RAEDLN	RA	MR124003	R1	CY62128EV30LL-45ZXIT	130	3.6	128	30	0
ZT32RBBALL	T	MR114065	R1	CY62128ELL-45ZXA	130	3.6	96	30	0
ZT32RBBALL	T	MR121034	R2	CY62128ELL-45ZXA	130	3.6	96	30	0

**Summary for Package Family: TSOP (Pb-free) 10 records**

**Sum 300 0**

**TSOP I (Pb-Free)**

ZB32RHABLN	JT	MR123001	R1	CY62138FV30LL-45ZAXAT	130	3.63	96	30	0
------------	----	----------	----	-----------------------	-----	------	----	----	---

**Summary for Package Family: TSOP I (Pb-Free) 1 records**

**Sum 30 0**

**TSOP II (Pb-Free)**

ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	130	3.6	128	30	0
ZW444AKCLN	R	MR114064	R1	CY7C1011CV33-12ZSXE	130	3.65	96	30	0
ZW444AHILL	JT	MR114069	R1	CY62126EV30LL-45XAKJ	130	3.6	96	30	0
ZW444AXAGL	RA	MR121003	R1	CY7C1021D-10ZSXIT	130	3.65	128	30	0
ZW324FBGL	T	MR121026	R1	CY7C1019CV33-10ZXA	130	3.3	96	30	0
ZW444AMCLN	JT	MR121037	R2	CY62147EV30LL-45ZSXIT	130	3.65	128	30	0
ZW444VDLL	JT	MR121057	R1	CY62147EV30LL-45XAKJ	130	3.6	96	30	0
ZW444RACLN	JT	MR122013	R1	CY62137VNULL-70ZSXA	130	3.65	96	30	0
ZW324FBGL	T	MR122036	R1	CY7C1019CV33-10ZXA	110	3.3	128	29	0
ZW324CBALR	T	MR114057	R1	CY62148EV30LL-45ZSXAT	130	3.6	96	30	0



ZW324FBGL	T	MR123010	R1	CY7C1019CV33-10ZXAT	130	3.3	96	30	0
ZW444AOLN	JT	MR123002	R1	CY62146ELL-45ZSXA	130	3.6	96	30	0
ZW44ABXAGL	RA	MR124004	R1	CY62146ESL-45ZSXI	130	3.6	128	30	0
ZW44ADXAGL	RA	MR121018	R1	CY14B104NA-ZS45XIT	130	3	128	30	0
ZW44AXXAGL	RA	MR122041	R1	CY14B101LA-ZS45XI	130	3.3	8H	30	0
ZW44AXXAGL	RA	MR123026	R1	CY14B101LA-ZS45XIT	130	3.3	8H	26	0
ZW544AALL	G	MR123028	R1	CY7C1069AV33-10ZXC	130	3.63	128	30	0
<b>Summary for Package Family: TSOP II (Pb-Free)</b>			<b>17</b>	<b>records</b>					
<b>Sum</b>								<b>505</b>	<b>0</b>
<b>TSSOP (Pb-Free)</b>									
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	130	3.8	128	30	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	130	3.8	128	30	0
<b>Summary for Package Family: TSSOP (Pb-Free)</b>			<b>2</b>	<b>records</b>					
<b>Sum</b>								<b>60</b>	<b>0</b>
<b>VFBGA (0.75-0.8, 0.3mm)</b>									
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	110	3.6	264	30	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>30</b>	<b>0</b>
<b>VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>									
BZ48CNAALL	G	MR114075	R2	CY62167DV30LL-55BVXI	110	3.6	264	30	0





BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	130	3.6	264	28	0
BZ48CEAALL	G	MR121025	R1	CY62147EV30LL-45BVXA	110	3.6	96	30	0
BZ48CEAALL	G	MR122011	R1	CY62147EV30LL-45BVXA	110	3.6	96	30	0
BZ48DAGLL	RA	MR122046	R1	CY62137FV30LL-45BVXI	130	3.6	264	30	0
BZ84ACAAAL	G	NR122002	R2	CY8CTMA1036BZI-12	130	5.5	128	25	0
BZ84ACAAAL	G	NR122002	R3	CY8CTMA1036BZI-12	130	5.5	128	25	0
BZ84AAAAAL	RA	NR122004	R1	CY8CTMA1036BZI-12	130	5.5	128	25	0
BZ84AAAAAL	RA	NR122004	R2	CY8CTMA1036BZI-12	130	5.5	128	25	0
BZ84AAAAAL	RA	NR122004	R3	CY8CTMA1036BZI-12	130	5.5	128	25	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>			<b>10</b>	<b>records</b>					
<b>Sum</b>								<b>273</b>	<b>0</b>
<b>PLCC (Pb-Free)</b>									
JZ52SFGAN	M	MR114045	R1	CY7C136-25JXC	130	5.5	128	30	0
<b>Summary for Package Family: PLCC (Pb-Free)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>30</b>	<b>0</b>



## Summary Detail -- HTS Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
<b>UFBGA (Pb-free)</b>											
BU60AAAAAL	G	121302	R4	CY8CTMA463-60BUIES2	150	0	1000	75	0		
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	150	0	500	76	0		
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	150	0	1000	76	0		
BU60AAAAAL	G	121302	R4	CY8CTMA463-60BUIES2	150	0	500	76	0		
BU60AAAAAL	G	MR123040	R1	CY8CTMA463-60BUI	150	0	500	28	0		
BU60AAAAAL	G	NR122006	R1	CY8CTMA463-60BUI	150	0	1000	25	0		
BU60AAAAAL	G	NR122006	R1	CY8CTMA463-60BUI	150	0	500	25	0		
BU60AAAAAL	G	NR122006	R2	CY8CTMA463-60BUI	150	0	1000	25	0		
BU60AAAAAL	G	NR122006	R2	CY8CTMA463-60BUI	150	0	500	25	0		
BU60AAAAAL	G	NR122006	R3	CY8CTMA400-60BUI	150	0	1000	25	0		
BU60AAAAAL	G	NR122006	R3	CY8CTMA400-60BUI	150	0	500	25	0		
BU84ABAAAL	AC	123603	R1	CY8CTMA1036BUI-33ES2	150	0	500	83	0		
BU84ABAAAL	AC	123603	R1	CY8CTMA1036BUI-33ES2	150	0	1000	77	0		
BU84ABAAAL	AC	123603	R2	CY8CTMA1036BUI-33ES2	150	0	500	83	0		
BU84ABAAAL	AC	123603	R2	CY8CTMA1036BUI-33ES2	150	0	1000	77	0		
BU84ABAAAL	AC	123603	R3	CY8CTMA1036BUI-33ES2	150	0	500	83	0		



BU84ABAAAL	AC	123603	R3	CY8CTMA1036BUI-33ES2	150	0	1000	78	0
BU84AAAAAL	G	123605	R1	CY8CTMA1036BUI-33ES2	150	0	500	83	0
BU84AAAAAL	G	123605	R1	CY8CTMA1036BUI-33ES2	150	0	1000	78	0
BU84AAAAAL	G	123605	R2	CY8CTMA1036BUI-33ES2	150	0	500	79	0
BU84AAAAAL	G	123605	R2	CY8CTMA1036BUI-33ES2	150	0	1000	74	0
BU84AAAAAL	G	123605	R3	CY8CTMA1036BUI-33ES2	150	0	500	79	0
BU84AAAAAL	G	123605	R3	CY8CTMA1036BUI-33ES2	150	0	1000	74	0
BU60AAAAAL	G	MR123040	R1	CY8CTMA463-60BUI	150	0	1000	26	0
BU60AAAAAL	G	MR124013	R1	CY8CTMA463-60BUI	150	0	500	30	0
<b>Summary for Package Family: UFBGA (Pb-free)</b>			<b>25</b>	<b>records</b>					
<b>Sum</b>								<b>1485</b>	<b>0</b>
<b>FBGA (0.75-0.8, 0.3mm)</b>									
BA48ZGALE	G	MR113048	R1	CY7C1021BNV33L-15BAI	150	0	1000	30	0
BA48ZGALE	G	MR121027	R1	CY7C1021BNV33L-15BAI	150	0	1000	30	0
BA48ZGALE	G	MR121027	R1	CY7C1021BNV33L-15BAI	150	0	500	30	0
BA48ZGALE	G	MR122034	R1	CY7C1021BNV33L-15BAI	150	0	1000	30	0
BA48ZGALE	G	MR122034	R1	CY7C1021BNV33L-15BAI	150	0	500	30	0
BA48ZGALE	G	MR123044	R1	CY7C1021BNV33L-15BAIT	150	0	500	30	0
BA48ZGALE	G	MR123044	R1	CY7C1021BNV33L-15BAIT	150	0	1000	30	0
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm)</b>			<b>7</b>	<b>records</b>					



Sum

210 0

FBGA (0.75-0.8, 0.3mm, Pb-free)

BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150	0	500	82	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150	0	1000	82	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150	0	1500	82	0
BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	150	0	500	30	0
BK48DJALL	G	MR121049	R1	CY62177DV30LL-55BAXI	150	0	500	28	0
BK121DGAGL	G	115001	R1	CYUSB3014-BZXIES	150	0	2000	89	0
BK121DGAGL	G	120403	R1	CYUSB3014-BZXIES	150	0	2000	81	0
BK121BGAGL	RA	121106	R1	CYUSB3014-BZXIES	150	0	2000	82	0
BK48DLBLL	G	MR113033	R1	CY62187EV30LL-55BAXI	150	0	1000	29	0
BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	150	0	1000	30	0
BK121AGAGL	RA	MR114079	R1	CYWB0220ABS-BZXI	150	0	500	29	0
BK48DJALL	G	MR121049	R1	CY62177DV30LL-55BAXI	150	0	1000	28	0
BK48DJALL	G	MR122051	R1	CY62177DV30LL-55BAXI	150	0	1000	30	0
BK48DJALL	G	MR122051	R1	CY62177DV30LL-55BAXI	150	0	500	30	0
BK121AGAGL	RA	MR123025	R1	CYWB0224ABS-BZXI	150	0	500	30	0
BK48DJALL	G	MR123043	R1	CY62177DV30LL-55BAXI	150	0	500	30	0
BK48CDGLL	G	MR114070	R1	CY7C1041CV33-10BAXA	150	0	1000	30	0
BK121AGAGL	RA	MR114079	R1	CYWB0220ABS-BZXI	150	0	1000	29	0



BK121AGAGL	RA	MR123025	R1	CYWB0224ABS-BZXI	150	0	1000	30	0
BK48DJALL	G	MR123043	R1	CY62177DV30LL-55BAXI	150	0	1000	29	0
BK48DJALL	G	MR123053	R1	CY62177DV30LL-55BAXIT	150	0	500	30	0
BK48DJALL	G	MR123053	R1	CY62177DV30LL-55BAXIT	150	0	1000	29	0
BK121BGAGL	RA	MR124053	R1	CG7648AM	150	0	500	30	0

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

**23 records**

**Sum 999 0**

**FBGA (1.0-1.27)**

BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	150	0	1000	30	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	150	0	500	30	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	150	0	1000	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	150	0	500	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	150	0	1000	30	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	150	0	500	30	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	150	0	500	30	0
BB165BUALE	G	MR122029	R1	CY7C1512KV18-250BZC	150	0	500	30	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	150	0	1000	30	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	150	0	1000	30	0
BB165RNALE	RA	MR123038	R1	CY7C1313KV18-250BZC	150	0	500	30	0
BB165RNALE	RA	MR124010	R1	CY7C1313KV18-250BZC	150	0	500	30	0



BB165RNALE	RA	MR124010	R1	CY7C1313KV18-250BZC	150	0	1000	30	0
------------	----	----------	----	---------------------	-----	---	------	----	---

**Summary for Package Family: FBGA (1.0-1.27)      13      records**

**Sum      390      0**

**FBGA (1.0-1.27,  
Pb-free)**

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



BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	150	0	2000	89	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150	0	1000	120	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150	0	1500	120	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150	0	2000	120	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150	0	1000	85	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150	0	1500	75	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150	0	1000	100	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150	0	1500	100	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150	0	1000	100	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150	0	1500	100	0
BW165BUALL	G	120107	R1	CY7C1512KV18-250BZXC	150	0	2500	63	0
BW165BUALL	G	120107	R2	CY7C1512KV18-250BZXC	150	0	2500	82	0
BW165BUALL	G	120107	R3	CY7C1512KV18-250BZXC	150	0	2500	72	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	150	0	2500	89	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	150	0	2500	119	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150	0	2000	70	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150	0	2000	100	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150	0	2000	99	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150	0	2000	29	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150	0	2500	29	0



BW165RJALL	RA	MR122009	R1	CY7C1412KV18-250BZXI	150	0	1000	30	0
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	150	0	1000	30	0
BW100EAGL	G	MR123012	R1	CYP15G0101DXB-BBXC	150	0	500	30	0
BW100EAGL	G	MR123012	R1	CYP15G0101DXB-BBXC	150	0	1000	29	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150	0	3000	29	0
BW165RNALL	RA	MR123039	R1	CY7C1312KV18-250BZXC	150	0	500	30	0
BW165RNALL	RA	MR123039	R1	CY7C1312KV18-250BZXC	150	0	1000	30	0
BW165RNALL	RA	MR124011	R1	CY7C1312KV18-250BZXI	150	0	500	30	0
BW100EAGL	G	MR124025	R1	CYP15G0101DXB-BBXI	150	0	500	30	0

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

**45 records**

**Sum**

**2940 0**

**FLIPCHIP CSP (Pb-Free)**

FN81AGAN	AU	MR114061	R2	CYWB0124ABX-FDXIT	150	0	500	30	0
FN81AGAN	AU	MR114061	R2	CYWB0124ABX-FDXIT	150	0	1000	30	0
FN49ACAAAL	GQ	MR113072	R1	CY8CTMA340-FNI-09T	150	0	500	30	0
FN49ABAAAL	AU	MR121046	R1	CP7455ATT	150	0	500	30	0
FN49ABDRCD	DT	MR122049	R1	CG7524AMT	150	0	500	30	0
FN49ACAAAL	GQ	MR113072	R1	CY8CTMA340-FNI-09T	150	0	1000	30	0
FN49ABAAAL	AU	MR121046	R1	CP7455ATT	150	0	1000	30	0
FN49ABDRCD	DT	MR123050	R1	CG7524AMT	150	0	500	30	0





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

**8**

**records**

**Sum**

**240**

**0**

**PBGA (Cavity/Heat Sink, Pb-free)**

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

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

**2**

**records**

**Sum**

**60**

**0**

**PDIP (Pb-Free)**

PZ183DPDGN	RA	MR121012	R1	CP6238BM	150	0	500	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	150	0	1000	30	0
PZ283ACAGL	X	MR121051	R1	CY7C199CN-15PXC	150	0	500	30	0
PZ283ACAGL	X	MR121051	R1	CY7C199CN-15PXC	150	0	1000	30	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	150	0	500	30	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	150	0	1000	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	150	0	500	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	150	0	1000	30	0
P2434XAAGB	X	MR122037	R1	CY7C194BN-15PC	150	0	1000	30	0
P2434XAAGB	X	MR122037	R1	CY7C194BN-15PC	150	0	500	30	0
PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	150	0	1000	30	0
PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	150	0	500	30	0



PZ286EAAGN	X	MR123020	R1	CY62256NLL-70PXC	150	0	1000	30	0
PZ286EAAGN	X	MR123020	R1	CY62256NLL-70PXC	150	0	500	30	0
PZ183DPDGN	RA	MR123023	R1	CY7C63723C-PXC	150	0	500	30	0
PZ183DPDGN	RA	MR123023	R1	CY7C63723C-PXC	150	0	1000	30	0
PZ286EAAGN	X	MR124047	R1	CY62256NLL-70PXC	150	0	500	30	0

**Summary for Package Family: PDIP (Pb-Free) 17 records**

**Sum 510 0**

**PLCC (Pb-Free)**

JZ52SFGAN	M	MR114045	R1	CY7C136-25JXC	150	0	500	30	0
JZ52SFGAN	M	MR114045	R1	CY7C136-25JXC	150	0	1000	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	150	0	500	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	150	0	1000	29	0
JZ52SFGAN	M	MR123051	R1	CY7C131-25JXCT	150	0	500	30	0
JZ52SFGAN	M	MR123051	R1	CY7C131-25JXCT	150	0	1000	30	0
JZ52SFGAN	M	MR124008	R1	CY7C146-55JXC	150	0	500	30	0
JZ52SFGAN	M	MR124008	R1	CY7C146-55JXC	150	0	1000	30	0

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

**Sum 239 0**

**PQFP (Pb-free)**

NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	150	0	500	30	0
-----------	---	----------	----	---------------	-----	---	-----	----	---



NZ52DXGAN	G	MR114028	R1	CY7C136A-55NXI	150	0	1000	30	0
NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	150	0	1000	30	0
NZ52DXGAN	G	MR122023	R1	CY7C131-55NXC	150	0	500	30	0
NZ52DXGAN	G	MR122023	R1	CY7C131-55NXC	150	0	1000	30	0
NZ52DXGAN	G	MR123027	R1	CY7C131-55NXC	150	0	500	30	0
NZ52DXGAN	G	MR123027	R1	CY7C131-55NXC	150	0	1000	30	0
NZ52EAALL	M	MR123052	R1	CY7C131E-55NXC	150	0	500	30	0
NZ52EAALL	M	MR123052	R1	CY7C131E-55NXC	150	0	1000	30	0

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

**9 records**

**Sum 270 0**

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

LG16AQAAAL	G	114903	R1	CY8C20236A-24LKXI	150	0	1000	110	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	1000	90	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	1500	78	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	1000	100	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	1500	99	0
LG16ABAALL	L	MR112052	R1	CP7194FT	150	0	1000	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	150	0	1000	30	0
LG16ABAALL	L	MR113029	R1	CS7412AT	150	0	1000	30	0
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	150	0	1000	80	0



LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	2000	78	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	2500	77	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	2000	99	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	2500	99	0
LG16ABAALL	L	MR114030	R1	CG7471AMT	150	0	500	30	0
LG16ABAALL	L	MR114030	R1	CG7471AMT	150	0	1000	30	0
LG16ABAALL	L	MR114032	R1	CY8C20236A-24LKXIT	150	0	500	30	0
LG16ABAALL	L	MR114032	R1	CY8C20236A-24LKXIT	150	0	1000	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	150	0	500	30	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	150	0	500	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	150	0	500	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	150	0	1000	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	150	0	500	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	150	0	1000	90	0
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	150	0	1500	52	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150	0	3000	77	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150	0	3000	99	0
LG16AQAAAL	G	MR122031	R1	CY7C64315-16LKXCT	150	0	500	28	0
LG16AQAAAL	G	MR123013	R1	CG7601AAT	150	0	500	30	0
LG16AEAAAL	MB	MR114063	R1	CY8C20234-12LKXAT	150	0	1000	30	0



LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	150	0	1000	30	0
LG16AQAAAL	G	MR122031	R1	CY7C64315-16LKXCT	150	0	1000	28	0
LG16AQAAAL	G	MR123013	R1	CG7601AAT	150	0	1000	29	0
<b>Summary for Package Family: QFN (COL, 0.6mm, Saw Type, Pb-free)</b>			<b>32</b>	<b>records</b>					
<b>Sum</b>								<b>2003</b>	<b>0</b>
<b>QFN (0.6mm, Punch Type, Pb-Free)</b>									
LK32AABAGL	L	MR114033	R1	CG7361AMT			500	30	0
LK32AABAGL	L	MR114033	R1	CG7361AMT	150	0	1000	30	
<b>Summary for Package Family: QFN (0.6mm, Punch Type, Pb-Free)</b>			<b>2</b>	<b>records</b>					
<b>Sum</b>								<b>60</b>	<b>0</b>
<b>QFN (Punch Type, Pb-Free)</b>									
LY56AGAGL	L	MR114036	R1	CY7C65630-56LFXA	150	0	1000	30	0
LY56DGAGL	L	MR114035	R1	CY8CTMG120-56LFXA	150	0	1000	30	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	150	0	1000	30	0
LY24BGAGL	L	MR113040	R1	CY8C21323-24LFXIT	150	0	1000	30	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	150	0	1000	30	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	150	0	1000	30	0
LY56AGAGL	L	MR123008	R1	CY7C65630-56LFXAT	150	0	1000	30	0
<b>Summary for Package Family: QFN (Punch Type, Pb-Free)</b>			<b>7</b>	<b>records</b>					



**Sum**

**210 0**

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

LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	1500	220	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	1500	210	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	1500	200	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150	0	1000	110	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150	0	500	80	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150	0	500	80	0
LQ44AAAAALN	G	120407	R4	CY8CTMA443-44LXIES	150	0	1000	79	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	150	0	1000	30	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	150	0	1000	30	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	150	0	500	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	150	0	500	25	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	150	0	1000	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	150	0	1000	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	150	0	500	25	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	2000	200	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	2500	200	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150	0	3000	200	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	2000	210	0



LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	2500	205	0
LQ48AQAAAL	G	114403	R2	CY8CTMA300E-48LQXI	150	0	3000	200	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	2000	220	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	2500	220	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150	0	3000	220	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150	0	1500	100	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150	0	2000	95	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150	0	1000	80	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150	0	1500	80	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150	0	1000	80	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150	0	1500	80	0
LT32BAABGL	RA	120204	R1	CG7032AA	150	0	1500	97	0
LT32BAABGL	RA	120204	R1	CG7032AA	150	0	2000	97	0
LT32BABCGL	RA	120204	R2	CS7224AA	150	0	1500	97	0
LT32BABCGL	RA	120204	R2	CS7224AA	150	0	2000	97	0
LT32BABCGL	RA	120204	R3	CS7224AA	150	0	1500	97	0
LT32BABCGL	RA	120204	R3	CS7224AA	150	0	2000	97	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150	0	1500	94	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150	0	2000	94	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150	0	2500	94	0



LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150	0	1500	104	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150	0	2000	104	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150	0	2500	104	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150	0	1500	104	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150	0	2000	103	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150	0	2500	103	0
LT32BAAAGL	CA	MR113021	R1	CY8C21434-24LTXIT	150	0	1000	28	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	150	0	500	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	150	0	1000	30	0
LT48ABBAAL	MB	MR114014	R1	CP7408AT	150	0	1000	30	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	150	0	1000	25	0
LT56BDAAGL	AE	MR113050	R1	CG7158DMT	150	0	1000	30	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	150	0	500	30	0
LT48AQAAAL	G	MR114071	R1	CY8C20636A-24LTXI	150	0	500	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	150	0	500	30	0
LT56BDAAGL	AE	MR121038	R1	CG7243AMT	150	0	500	30	0
LT32BAABGL	RA	MR122002	R1	CY8C21434-24LTXIT	150	0	500	30	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	150	0	500	30	0
LT56YAAAAAL	G	MR122027	R1	CY7C65640A-LTXC	150	0	500	30	0
LT48CQAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	150	0	500	90	0





LT48CQAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	150	0	500	90	0
LT48CQAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	150	0	500	90	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150	0	2000	80	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150	0	2000	75	0
LT32BABCGL	RA	120204	R2	CS7224AA	150	0	2500	97	0
LT32BABCGL	RA	120204	R3	CS7224AA	150	0	2500	97	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150	0	3000	94	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150	0	3000	104	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150	0	3000	103	0
LQ24AQAAAL	G	120604	R1	CY7C68003-24LQXI	150	0	2500	96	0
LQ24AQAAAL	G	120604	R2	CY7C68003-24LQXI	150	0	2500	96	0
LQ24AQAAAL	G	120604	R3	CY7C68003-24LQXI	150	0	2500	97	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150	0	1500	30	0
LQ36AAAAAN	MB	MR114015	R1	CY8CTMA340-LQI-01T	150	0	500	30	0
LQ36AAAAAL	L	MR114031	R1	CP7340ATT	150	0	500	30	0
LQ48AQAAAL	G	MR121005	R1	CY8CTMA340-48LQI-01T	150	0	1000	30	0
LQ48AQAAAL	G	MR121005	R1	CY8CTMA340-48LQI-01T	150	0	500	30	0
LT48CQAAAL	G	MR121009	R1	CYWUSB6935-48LTXIKG	150	0	1000	30	0
LT48CQAAAL	G	MR121009	R1	CYWUSB6935-48LTXIKG	150	0	500	30	0
LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	150	0	500	28	0



LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	150	0	1000	30	0
LT56YAAAAL	G	MR122027	R1	CY7C65640A-LTXC	150	0	1000	30	0
LQ32QAAAAL	G	MR122028	R1	CY8C20446A-24LQXI	150	0	1000	30	0
LQ32QAAAAL	G	MR122028	R1	CY8C20446A-24LQXI	150	0	500	30	0
LT88ABAAAAL	L	MR122033	R1	CY8CTMA616LTI-13T	150	0	500	30	0
LT88ABAAAAL	L	MR123003	R1	CY8CTMA616LTI-13	150	0	500	30	0
LT56BCAAGL	AE	MR123005	R1	CP7391AT	150	0	1000	30	0
LT56BCAAGL	AE	MR123005	R1	CP7391AT	150	0	500	30	0
LQ48AAAAAL	RA	MR123014	R1	CY8CTMA340-48LQI-01	150	0	1000	30	0
LQ48AAAAAL	RA	MR123014	R1	CY8CTMA340-48LQI-01	150	0	500	30	0
LT56BEAAGL	RA	MR123015	R1	CY8C24794-24LTXI	150	0	500	30	0
LT48CQAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	150	0	1000	90	0
LT48CQAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	150	0	1000	90	0
LT48CQAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	150	0	1000	90	0
LQ48AEAAAAL	RA	NR122003	R1	CY8CTMA463-48LQI	150	0	1000	25	0
LQ48AEAAAAL	RA	NR122003	R1	CY8CTMA463-48LQI	150	0	500	25	0
LQ48AEAAAAL	RA	NR122003	R2	CY8CTMA463-48LQI	150	0	1000	25	0
LQ48AEAAAAL	RA	NR122003	R2	CY8CTMA463-48LQI	150	0	500	25	0
LQ48AEAAAAL	RA	NR122003	R3	CY8CTMA463-48LQI	150	0	1000	25	0
LQ48AEAAAAL	RA	NR122003	R3	CY8CTMA463-48LQI	150	0	500	25	0



LQ48ADAAAL	G	NR122005	R1	CY8CTMA463-48LQI	150	0	1000	25	0
LQ48ADAAAL	G	NR122005	R1	CY8CTMA463-48LQI	150	0	500	25	0
LQ48ADAAAL	G	NR122005	R2	CY8CTMA463-48LQI	150	0	1000	25	0
LQ48ADAAAL	G	NR122005	R2	CY8CTMA463-48LQI	150	0	500	25	0
LQ48ADAAAL	G	NR122005	R3	CY8CTMA463-48LQI	150	0	1000	25	0
LQ48ADAAAL	G	NR122005	R3	CY8CTMA463-48LQI	150	0	500	25	0
LT40BQAAAL	G	122503	R1	CYRF69103-40LTXC	150	0	500	80	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150	0	2000	29	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150	0	3000	26	0
LQ36AAAAAN	MB	MR114015	R1	CY8CTMA340-LQI-01T	150	0	1000	30	0
LQ36AAAAAL	L	MR114031	R1	CP7340ATT	150	0	1000	30	0
LT48AQAAAL	G	MR114071	R1	CY8C20636A-24LTXI	150	0	1000	30	0
LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	150	0	1000	28	0
LT48DQAAAL	G	MR121056	R1	CY8C28623-24LTXIT	150	0	500	30	0
LT48ABBAAL	MB	MR122032	R1	CP7408AT	150	0	500	30	0
LT88ABAAAL	L	MR122033	R1	CY8CTMA616LTI-13T	150	0	1000	28	0
LT88ABAAAL	L	MR123003	R1	CY8CTMA616LTI-13	150	0	1000	30	0
LT40ABAAAL	G	MR123011	R1	CYRF7936-40LTXC	150	0	500	30	0
LT56BEAAGL	RA	MR123015	R1	CY8C24794-24LTXI	150	0	1000	30	0
LQ32QAAAAAL	G	MR123042	R1	CY24292LFXCT	150	0	500	30	0



LQ48AQAAAL	G	MR124012	R1	CY8CTMA340-48LQI-01	150	0	500	30	0
LQ48AQAAAL	G	MR124012	R1	CY8CTMA340-48LQI-01	150	0	1000	30	0
LT56BEAAGL	RA	MR124014	R1	CS6651DAT	150	0	500	30	0
LT56BEAAGL	RA	MR124014	R1	CS6651DAT	150	0	1000	30	0
LQ56BAAAAL	RA	MR124016	R1	CY8CTMA463-56LQI	150	0	500	30	0
LQ56BAAAAL	RA	MR124016	R1	CY8CTMA463-56LQI	150	0	1000	30	0
LT88ABAAAAL	L	MR124017	R1	CY8CTMA884LTI-13	150	0	500	30	0

**Summary for Package Family: QFN (Saw Type, Pb-Free) 125 records**

**Sum 8441 0**

**QFN (0.8mm Saw Type, Pb-Free)**

LH08AAALL	MB	MR123046	R1	CY14B101Q2-LHXI	150	0	500	30	0
-----------	----	----------	----	-----------------	-----	---	-----	----	---

**Summary for Package Family: QFN (0.8mm Saw Type, Pb-Free) 1 records**

**Sum 30 0**

**QSOP (Pb-Free)**

SQ2414ACGN	JT	MR114029	R1	CY7C63823-QXC	150	0	1000	21	0
SQ2414ACGN	JT	MR121036	R1	CY7C63823-QXC	150	0	500	30	0
SQ2414ACGN	JT	MR123030	R1	CY7C63823-QXC	150	0	500	29	0

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

**Sum 80 0**



**SNC (Pb-Free)**

SY2831BCLN	JT	MR114017	R1	CY62256NLL-70SNXC	150	0	1000	30	0
SY2831BHN	JT	MR123036	R1	CG7261AT	150	0	1000	30	0

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

**Sum 60 0**

**SOIC**

S1615KDAGN	RA	MR123017	R1	CY2309SC-1H	150	0	500	30	0
S1615KDAGN	RA	MR123017	R1	CY2309SC-1H	150	0	1000	30	0

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

**Sum 60 0**

**SOIC (Pb Free)**

SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	150	0	1000	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150	0	500	30	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	150	0	500	77	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	150	0	1000	77	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	150	0	500	96	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	150	0	1000	86	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	150	0	500	96	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	150	0	1000	86	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	150	0	500	95	0



SZ1615FAL	T	122206	R3	CY8C20237-24SXI	150	0	1000	85	0
SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	150	0	1000	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	150	0	500	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	150	0	1000	30	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	150	0	1000	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150	0	1000	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150	0	1500	30	0
SZ1615DGN	M	MR121048	R2	CY8C21234-24SXI	150	0	500	30	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	150	0	500	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	150	0	1000	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	150	0	500	30	0
SZ28327BGL	R	MR113017	R1	CY8C21345-24SXI	150	0	1000	30	0
SZ1615FAL	T	MR114019	R1	CY7C63801-SXC	150	0	500	30	0
SZ1615FAL	T	MR114019	R1	CY7C63801-SXC	150	0	1000	30	0
SZ24315EGN	RA	MR114020	R1	CY7C63743C-SXCT	150	0	1000	28	0
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	150	0	500	30	0
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	150	0	1000	30	0
SZ32451BLN	JT	MR121010	R1	CY7C53120E2-10SXI	150	0	500	30	0
SZ24315DGN	RA	MR121011	R1	CY7C63823-SXC	150	0	500	30	0
SZ24315DGN	RA	MR121011	R1	CY7C63823-SXC	150	0	1000	30	0



SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150	0	2000	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150	0	3000	30	0
SZ1615DGN	M	MR121048	R2	CY8C21234-24SXI	150	0	1000	30	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	150	0	1000	30	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	150	0	1000	30	0
SZ324513AN	JT	MR122012	R1	CY62128BNLL-70SXET	150	0	1000	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	150	0	1000	30	0
SZ2035BAAL	JT	MR122048	R1	CY8C27243-24SXIT	150	0	500	30	0
SZ2035BAAL	JT	MR122048	R1	CY8C27243-24SXIT	150	0	1000	30	0
SZ183CPBAN	RA	MR123024	R1	CY7C63813-SXC	150	0	500	30	0
SZ183CPBAN	RA	MR123024	R1	CY7C63813-SXC	150	0	1000	30	0
SZ323AEGAS	M	MR113035	R1	CY14B101LA-SZ25XIT	150	0	1000	30	0
SZ323AEGAS	M	MR114024	R1	CY14B101LA-SZ45XIT	150	0	500	30	0
SZ32451BLN	JT	MR121010	R1	CY7C53120E2-10SXI	150	0	1000	30	0
SZ323AEGAS	M	MR121044	R1	CY14E256LA-SZ25XI	150	0	500	30	0
SZ1615FAL	T	MR122044	R1	CY8C20180-SX2I	150	0	500	30	0
SZ32451DLL	JT	MR123019	R1	CY62148ELL-55SXI	150	0	500	30	0
SZ163DAALL	M	MR123047	R1	CY14B101P-SFXIT	150	0	500	29	0
SZ1615FAL	T	MR123049	R1	CY8C20160-SX2IT	150	0	500	30	0

**Summary for Package Family: SOIC (Pb Free) 48 records**



**Sum**

**1895 0**

**SOJ**

VZ43GAAAGN	X	MR113065	R1	CY7C197BN-15VC	150	0	1000	30	0
------------	---	----------	----	----------------	-----	---	------	----	---

**Summary for Package Family:  
SOJ**

**1 records**

**Sum**

**30 0**

**SOJ (Pb-Free)**

VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	150	0	500	30	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	150	0	1000	25	0
VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	150	0	1000	25	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	150	0	500	30	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	150	0	1000	30	0
VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	150	0	1000	30	0
VZ32314CLL	JT	MR121024	R1	CY7C1009D-10VXI	150	0	500	30	0
VZ32314CLL	JT	MR121024	R1	CY7C1009D-10VXI	150	0	1000	30	0
VZ444ADCLN	JT	MR122038	R1	CY7C1041D-10VXIT	150	0	500	30	0
VZ444ADCLN	JT	MR122038	R1	CY7C1041D-10VXIT	150	0	1000	30	0
VZ28313CLN	JT	MR122050	R1	CY7C1399BN-12VXI	150	0	500	30	0
VZ28313CLN	JT	MR122050	R1	CY7C1399BN-12VXI	150	0	1000	30	0
VZ32314CLL	JT	MR123033	R1	CY7C1018DV33-10VXIT	150	0	500	30	0
VZ2847AAAR	OP	MR114074	R1	CY7C107D-10VXI	150	0	500	30	0





VZ2847AAAR	OP	MR114074	R1	CY7C107D-10VXI	150	0	1000	29	0
VZ32314CLL	JT	MR123033	R1	CY7C1018DV33-10VXIT	150	0	1000	29	0
VZ444ACCLN	JT	MR124002	R1	CY7C1021D-10VXIT	150	0	500	30	0
VZ444ACCLN	JT	MR124002	R1	CY7C1021D-10VXIT	150	0	1000	30	0

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

**Sum 528 0**

**SSOP (Pb-Free)**

SP2822BGL	M	MR114003	R1	CP7407ATT	150	0	1000	30	0
SP282ABBGN	RA	MR114023	R1	CY8C24533-24PVXI	150	0	1000	30	0
SP483MBBGN	RA	MR114067	R1	CY8C3246PVI-147	150	0	500	30	0
SP483EBCAL	JT	MR114073	R1	CY8C29666-24PVXIT	150	0	500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150	0	500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150	0	1000	30	0
SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	150	0	500	30	0
SP282ABBGN	RA	MR121043	R1	CY8C27443-24PVXIT	150	0	500	30	0
SP282ABBGN	RA	MR121043	R1	CY8C27443-24PVXIT	150	0	1000	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150	0	500	28	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150	0	1000	22	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150	0	1000	6	0
SP282ABBGN	RA	MR122004	R1	CY8C27443-24PVXIT	150	0	500	30	0



SP483MBBGN	RA	MR114067	R1	CY8C3246PVI-147	150	0	1000	29	0
SP483EBCAL	JT	MR114073	R1	CY8C29666-24PVXIT	150	0	1000	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150	0	1500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150	0	2000	30	0
SP563DBCNG	JT	MR121016	R1	CY7C68013A-56PVXC	150	0	1000	30	0
SP483FBKGN	RA	MR121019	R1	CY8C20536A-24PVXIT	150	0	500	30	0
SP483FBKGN	RA	MR121019	R1	CY8C20536A-24PVXIT	150	0	1000	30	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	150	0	1000	30	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	150	0	1000	30	0
SP483FBKGN	RA	MR122003	R1	CY8C20536A-24PVXIT	150	0	500	30	0
SP483FBKGN	RA	MR122003	R1	CY8C20536A-24PVXIT	150	0	1000	30	0
SP282ABBG	RA	MR122004	R1	CY8C27443-24PVXIT	150	0	1000	30	0
SP563DBCNG	JT	MR122025	R1	CY7C68013A-56PVXC	150	0	500	30	0
SP483FBKGN	RA	MR123016	R1	CY8C20546A-24PVXIT	150	0	500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150	0	2500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150	0	3000	30	0
SP563DBCNG	JT	MR122025	R1	CY7C68013A-56PVXC	150	0	1000	30	0
SP483FBKGN	RA	MR123016	R1	CY8C20546A-24PVXIT	150	0	1000	30	0
SP563DBCNG	JT	MR123029	R1	CY7C68013A-56PVXC	150	0	500	30	0
SP28214GL	T	MR123055	R1	CY8C9520A-24PVXI	150	0	500	30	0



SP28214GL	T	MR123055	R1	CY8C9520A-24PVXI	150	0	1000	30	0
SP28214GL	T	MR124035	R1	CY8C24423A-24PVXI	150	0	500	30	0

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

**35 records**

**Sum**

**1015 0**

**TQFP (Pb-Free)**

AZ32GXGAN	G	MR112054	R1	CY29940AXCT	150	0	1000	30	0
AZ32GXGAN	G	MR113046	R1	CY29940AXIT	150	0	1000	30	0
AZ32GXGAN	G	MR114034	R1	CY29942AXCT	150	0	500	30	0
AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	150	0	1000	30	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	150	0	500	30	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	150	0	1000	30	0
AZ144AAAGR	Q	MR114081	R1	CY7C057V-15AXI	150	0	500	30	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	150	0	500	30	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	150	0	500	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	150	0	500	30	0
AZ100RUCLN	JT	NR113006	R2	CY7C68013A-100AXIKJ	150	0	1000	25	0
AZ100SFEAL	JT	NR113006	R3	CY7C026AV-25AXIKJ	150	0	1000	25	0
AZ144AAAGR	Q	MR114081	R1	CY7C057V-15AXI	150	0	1000	30	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	150	0	1000	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	150	0	1000	30	0



AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	150	0	1000	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	150	0	1000	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	150	0	500	30	0
AZ32BXGAN	Q	MR122024	R1	CY7C4201V-15AXC	150	0	500	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150	0	1500	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150	0	2000	29	0
AZ100SFGAL	JT	MR114068	R1	CY8C3245AXI-158	150	0	500	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	150	0	1000	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	150	0	1000	30	0
AZ32BXGAN	Q	MR122024	R1	CY7C4201V-15AXC	150	0	1000	30	0
AZ128BGAL	G	MR122030	R1	CY7C64713-128AXC	150	0	500	30	0
AZ128BGAL	G	MR122030	R1	CY7C64713-128AXC	150	0	1000	30	0
AZ64JAAALL	M	MR123004	R1	CY7C144E-15AXC	150	0	500	30	0
AZ64JAAALL	M	MR123004	R1	CY7C144E-15AXC	150	0	1000	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150	0	2500	29	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150	0	3000	29	0
AZ32GXGAN	G	MR114034	R1	CY29942AXCT	150	0	1000	30	0
AZ100SFGAL	JT	MR114068	R1	CY8C3245AXI-158	150	0	1000	30	0
AZ52AAGAL	Q	MR121039	R1	CY29972AXI	150	0	500	30	0
AZ100SFEAL	JT	MR123035	R1	CP7529AT	150	0	1000	23	0



AZ100KGAN	G	MR123041	R1	CY7C024AV-25AXC	150	0	500	30	0
AZ100KGAN	G	MR123041	R1	CY7C024AV-25AXC	150	0	1000	30	0
AZ100SFELL	R	MR123054	R1	CY8C3245AXI-158	150	0	500	30	0
AZ100SFELL	R	MR123054	R1	CY8C3245AXI-158	150	0	1000	30	0
AZ64JAAALL	M	MR124007	R1	CY7C144E-55AXC	150	0	500	30	0
AZ64JAAALL	M	MR124007	R1	CY7C144E-55AXC	150	0	1000	30	0
AZ100RJBLN	R	MR124034	R1	CY7C1350G-200AXCT	150	0	500	30	0

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

**42 records**

**Sum**

**1240 0**

**TSOP (Pb-free)**

ZT28R2BCLN	JT	MR114004	R1	CY62256VNLL-70ZXI	150	0	500	30	0
ZT28R2BCLN	JT	NR113004	R3	CY62256VNLL-70ZXC	150	0	1000	25	0
ZT28R4BAGL	JT	NR113004	R2	CY7C1399BN-12ZXC	150	0	1000	25	0
ZT28R2BCLN	JT	MR114004	R1	CY62256VNLL-70ZXI	150	0	1000	27	0
ZT32RBBALL	T	MR114065	R1	CY62128ELL-45ZXA	150	0	1000	30	0
ZT32RBBALL	T	MR121034	R1	CY62128ELL-45ZXA	150	0	1000	30	0
ZT32RABALL	T	MR122042	R1	CY62128EV30LL-45ZXIT	150	0	500	30	0
ZT32RAEDLN	RA	MR123031	R1	CY62128EV30LL-45ZXI	150	0	500	30	0
ZT28R2ABGN	JT	MR121061	R1	CY62256NLL-55ZXAT	150	0	1000	30	0
ZT28R2ABGN	JT	MR122035	R1	CY7C62256NLL-55ZXA	150	0	1000	30	0



ZT32RABALL	T	MR122042	R1	CY62128EV30LL-45ZXIT	150	0	1000	30	0
ZT28R2ABGN	JT	MR123009	R1	CY62256NLL-55ZXAT	150	0	1000	30	0
ZT32RAEDLN	RA	MR123031	R1	CY62128EV30LL-45ZXI	150	0	1000	30	0
ZT32RAEDLN	RA	MR124003	R1	CY62128EV30LL-45ZXIT	150	0	500	30	0
ZT32RAEDLN	RA	MR124003	R1	CY62128EV30LL-45ZXIT	150	0	1000	30	0

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

**Sum 437 0**

**TSOP I (Pb-Free)**

ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	150	0	1000	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	150	0	1000	30	0
ZB32RHCALN	JT	NR113004	R1	CY62138FV30LL-45ZAXI	150	0	1000	25	0
ZB32RHABLN	JT	MR122021	R1	CY62138FV30LL-45ZAXA	150	0	1000	30	0
ZB32RHABLN	JT	MR123001	R1	CY62138FV30LL-45ZAXAT	150	0	1000	30	0

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

**Sum 145 0**

**TSOP II (Pb-Free)**

ZW444AKCLN	R	MR114064	R1	CY7C1011CV33-12ZSXE	150	0	1000	30	0
ZW324CBLL	T	MR113004	R1	CY62148ELL-45ZSXIT	150	0	1000	30	0
ZW444YBBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150	0	2000	30	0
ZW444YBBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150	0	1500	30	0



ZW444AHLL	R	MR114007	R1	CY62126EV30LL-55ZSXE	150	0	1000	30	0
ZW44ABXAGL	RA	MR114027	R1	CY62137EV30LL-45ZSXI	150	0	1000	30	0
ZW444ALLR	G	MR114043	R1	CY7C1051DV33-10ZSXI	150	0	1000	30	0
ZW324CBALR	T	MR114057	R1	CY62148EV30LL-45ZSXAT	150	0	1000	30	0
ZW444AHILL	JT	MR114069	R1	CY62126EV30LL-45XAKJ	150	0	500	30	0
ZW444AHILL	JT	MR114069	R1	CY62126EV30LL-45XAKJ	150	0	1000	30	0
ZW44AAXAGL	RA	MR121003	R1	CY7C1021D-10ZSXIT	150	0	1000	30	0
ZW44AAXAGL	RA	MR121003	R1	CY7C1021D-10ZSXIT	150	0	500	30	0
ZW44ADXAGL	RA	MR121018	R1	CY14B104NA-ZS45XIT	150	0	1000	30	0
ZW44ADXAGL	RA	MR121018	R1	CY14B104NA-ZS45XIT	150	0	500	30	0
ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	150	0	1000	30	0
ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	150	0	500	30	0
ZW324FBGL	T	MR121026	R1	CY7C1019CV33-10ZXA	150	0	1000	30	0
ZW444AIDLL	JT	MR121037	R1	CY62126EV30LL-45XIKJ	150	0	1000	30	0
ZW444AIDLL	JT	MR121037	R1	CY62126EV30LL-45XIKJ	150	0	500	30	0
ZW54BGALL	G	MR122040	R1	CY7C1069DV33-10ZSXI	150	0	1000	30	0
ZW54BGALL	G	MR122040	R1	CY7C1069DV33-10ZSXI	150	0	500	30	0
ZW44AXXAGL	RA	MR122041	R1	CY14B101LA-ZS45XI	150	0	1000	30	0
ZW44AXXAGL	RA	MR122041	R1	CY14B101LA-ZS45XI	150	0	500	30	0
ZW544AALL	G	MR123028	R1	CY7C1069AV33-10ZXC	150	0	500	30	0



ZW444ALLR	G	MR123045	R1	CY7C1051DV33-12ZSXIT	150	0	500	30	0
ZW44AXXAGL	RA	122302	R1	CY14B101NA-ZS45XI	150	0	500	80	0
ZW44AXXAGL	RA	122302	R1	CY14B101NA-ZS45XI	150	0	1000	80	0
ZW444YBBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150	0	2500	30	0
ZW444YBBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150	0	3000	30	0
ZW324CBALR	T	MR114005	R1	CY62148EV30LL-45ZSXAT	150	0	1000	30	0
ZW444VDLL	JT	MR121057	R1	CY62147EV30LL-45XAKJ	150	0	1000	29	0
ZW444RACLN	JT	MR122013	R1	CY62137VNLL-70ZSXA	150	0	1000	30	0
ZW324FBGL	T	MR122036	R1	CY7C1019CV33-10ZXAX	150	0	1000	30	0
ZW444AOLN	JT	MR123002	R1	CY62146ELL-45ZSXA	150	0	1000	30	0
ZW324FBGL	T	MR123010	R1	CY7C1019CV33-10ZXAT	150	0	1000	30	0
ZW44AXXAGL	RA	MR123026	R1	CY14B101LA-ZS45XIT	150	0	500	27	0
ZW44AXXAGL	RA	MR123026	R1	CY14B101LA-ZS45XIT	150	0	1000	27	0
ZW544AALL	G	MR123028	R1	CY7C1069AV33-10ZXC	150	0	1000	30	0
ZW444ALLR	G	MR123045	R1	CY7C1051DV33-12ZSXIT	150	0	1000	30	0
ZW44ABXAGL	RA	MR124004	R1	CY62146ESL-45ZSXI	150	0	500	30	0
ZW44ABXAGL	RA	MR124004	R1	CY62146ESL-45ZSXI	150	0	1000	30	0
ZW544AALL	G	MR124006	R1	CY7C1061AV33-10ZXI	150	0	500	29	0
ZW544AALL	G	MR124006	R1	CY7C1061AV33-10ZXI	150	0	1000	29	0
ZW444ALLR	G	MR124042	R1	CY7C1051DV33-10ZSXI	150	0	500	30	0





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

**44 records**

**Sum 1411 0**

**RTSOP (Pb-free)**

ZY28R2CLN	JT	MR114009	R1	CY62256VNULL-70ZRXIT	150	0	500	30	0
ZY28R2CLN	JT	MR114009	R1	CY62256VNULL-70ZRXIT	150	0	1000	30	0

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

**2 records**

**Sum 60 0**

**TSSOP (Pb-Free)**

ZZ1614HAN	T	MR114022	R1	CY22388ZXC-25T	150	0	1000	30	0
ZZ1620GBAN	RA	MR114026	R1	CY22388ZXC-26T	150	0	1000	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	150	0	500	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	150	0	1000	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	150	0	500	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	150	0	1000	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	150	0	500	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	150	0	500	30	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	150	0	500	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	150	0	1000	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	150	0	1000	30	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	150	0	1000	30	0



ZZ1620GBAN	RA	MR123018	R1	CY22150FZXCT	150	0	500	29	0
ZZ2014BGN	T	MR123021	R1	CY25404ZXI217T	150	0	500	30	0
ZZ1620GBAN	RA	MR123018	R1	CY22150FZXCT	150	0	1000	29	0
ZZ2014BGN	T	MR123021	R1	CY25404ZXI217T	150	0	1000	30	0
ZZ1620GBAN	RA	MR124001	R1	CY22393FXCT	150	0	500	29	0
ZZ1620GBAN	RA	MR124001	R1	CY22393FXCT	150	0	1000	29	0
ZZ2014BGN	T	MR124005	R1	CY25404ZXI011T	150	0	500	30	0
ZZ2014BGN	T	MR124005	R1	CY25404ZXI011T	150	0	1000	30	0

**Summary for Package Family: TSSOP (Pb-Free)**

**20 records**

**Sum 596 0**

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

BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	150	0	500	30	0
BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	150	0	1000	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	150	0	500	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	150	0	500	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	150	0	1000	30	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	150	0	1000	28	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	150	0	1000	30	0
BV48CRALE	G	MR123032	R1	CY62167EV30LL-45BVIT	150	0	500	30	0
BV48CLALE	G	MR124055	R1	CY7C1041DV33-10BVIT	150	0	500	30	0



BV48CRALE	G	MR123032	R1	CY62167EV30LL-45BVIT	150	0	1000	30	0
-----------	---	----------	----	----------------------	-----	---	------	----	---

**Summary for Package Family: VFBGA (0.75-0.8, 0.3mm) 10 records**

**Sum 298 0**

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

BZ48CNAALL	G	MR114075	R2	CY62167DV30LL-55BVXI	150	0	500	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	150	0	500	30	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150	0	1000	104	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150	0	1500	94	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150	0	1000	99	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150	0	1500	89	0
BZ48CEAALL	G	MR113057	R1	CY62147EV30LL-45BVXA	150	0	1000	30	0
BZ48CNAALL	G	MR114018	R1	CY62167DV30LL-55BVXI	150	0	500	30	0
BZ48CNAALL	G	MR114075	R2	CY62167DV30LL-55BVXI	150	0	1000	30	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	150	0	500	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	150	0	1000	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	150	0	500	30	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150	0	2000	89	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	150	0	1000	30	0
BZ48CEAALL	G	MR121025	R1	CY62147EV30LL-45BVXA	150	0	1000	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	150	0	1000	30	0



BZ48CEAALL	G	MR122011	R1	CY62147EV30LL-45BVXA	150	0	1000	30	0
BZ56BGALL	RA	MR122045	R1	CY7C68013A-56BAXC	150	0	500	30	0
BZ56BGALL	RA	MR122045	R1	CY7C68013A-56BAXC	150	0	1000	30	0
BZ48DAGLL	RA	MR122046	R1	CY62137FV30LL-45BVXI	150	0	500	30	0
BZ48DAGLL	RA	MR122046	R1	CY62137FV30LL-45BVXI	150	0	1000	30	0
BZ56GABGL	RA	MR123022	R1	CY7C68053-56BAXI	150	0	500	30	0
BZ84ACAAAL	G	NR122002	R1	CY8CTMA1036BZI-12	150	0	500	25	0
BZ84ACAAAL	G	NR122002	R1	CY8CTMA1036BZI-12	150	0	1000	25	0
BZ84ACAAAL	G	NR122002	R2	CY8CTMA1036BZI-12	150	0	500	25	0
BZ84ACAAAL	G	NR122002	R2	CY8CTMA1036BZI-12	150	0	1000	25	0
BZ84ACAAAL	G	NR122002	R3	CY8CTMA1036BZI-12	150	0	500	25	0
BZ84ACAAAL	G	NR122002	R3	CY8CTMA1036BZI-12	150	0	1000	25	0
BZ84AAAAAL	RA	NR122004	R1	CY8CTMA1036BZI-12	150	0	500	25	0
BZ84AAAAAL	RA	NR122004	R1	CY8CTMA1036BZI-12	150	0	1000	25	0
BZ84AAAAAL	RA	NR122004	R2	CY8CTMA1036BZI-12	150	0	500	25	0
BZ84AAAAAL	RA	NR122004	R2	CY8CTMA1036BZI-12	150	0	1000	25	0
BZ84AAAAAL	RA	NR122004	R3	CY8CTMA1036BZI-12	150	0	500	21	0
BZ84AAAAAL	RA	NR122004	R3	CY8CTMA1036BZI-12	150	0	1000	21	0
BZ56GABGL	RA	MR123022	R1	CY7C68053-56BAXI	150	0	1000	30	0
BZ48CEAALL	G	MR123034	R1	CY62147EV30LL-45BVXA	150	0	1000	30	0



BZ48CEAALL	G	MR124028	R1	CY62147EV30LL-45BVXA	150	0	1000	28	0
BZ48CWALL	G	MR124045	R1	CY7C1061DV33-10BVXIT	150	0	500	30	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>			<b>38</b>	<b>records</b>					
<b>Sum</b>								<b>1395</b>	<b>0</b>

**PBGA (Pb-Free)**

BY119SALL	G	MR124018	R1	CY7C1354C-200BGXC	150	0	500	30	0
<b>Summary for Package Family: PBGA (Pb-Free)</b>			<b>1</b>	<b>records</b>					
<b>Sum</b>								<b>30</b>	<b>0</b>



## Summary Detail -- PCT Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
<b>UFBGA (Pb-free)</b>											
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	121	0	168	77	0		
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	121	0	288	77	0		
BU60AAAAAL	G	MR123040	R1	CY8CTMA463-60BUI	121	0	168	25	0		
BU60AAAAAL	G	NR122006	R1	CY8CTMA463-60BUI	121	0	288	25	0		
BU60AAAAAL	G	NR122006	R1	CY8CTMA463-60BUI	121	0	168	25	0		
BU60AAAAAL	G	NR122006	R2	CY8CTMA463-60BUI	121	0	168	22	0		
BU60AAAAAL	G	NR122006	R2	CY8CTMA463-60BUI	121	0	288	22	0		
BU60AAAAAL	G	NR122006	R3	CY8CTMA400-60BUI	121	0	168	25	0		
BU84ABAAAL	AC	123603	R2	CY8CTMA1036BUI-33ES2	121	0	288	79	0		
BU84ABAAAL	AC	123603	R3	CY8CTMA1036BUI-33ES2	121	0	288	78	0		
BU84AAAAAL	G	123605	R2	CY8CTMA1036BUI-33ES2	121	0	288	69	0		
BU84AAAAAL	G	123605	R3	CY8CTMA1036BUI-33ES2	121	0	288	77	0		
BU60AAAAAL	G	MR123040	R1	CY8CTMA463-60BUI	121	0	288	24	0		
<b>Summary for Package Family: UFBGA (Pb-free)</b>			<b>13</b>	<b>records</b>							
<b>Sum</b>								<b>625</b>	<b>0</b>		
<b>FBGA (0.75-0.8, 0.3mm)</b>											



BA48ZGALE	G	MR121027	R1	CY7C1021BNV33L-15BAI	121	0	168	30	0
BA48ZGALE	G	MR121027	R1	CY7C1021BNV33L-15BAI	121	0	288	26	0
BA48ZGALE	G	MR122034	R1	CY7C1021BNV33L-15BAI	121	0	288	30	0
BA48ZGALE	G	MR122034	R1	CY7C1021BNV33L-15BAI	121	0	168	30	0
BA48ZGALE	G	MR123044	R1	CY7C1021BNV33L-15BAIT	121	0	168	30	0
BA48ZGALE	G	MR123044	R1	CY7C1021BNV33L-15BAIT	121	0	288	30	0

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

**6 records**

**Sum 176 0**

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

BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	121	0	288	82	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	121	0	168	82	0
BK121BGAGL	RA	121106	R2	CYUSB3014-BZXIES	121	0	288	82	0
BK121AGAGL	RA	MR114079	R1	CYWB0220ABS-BZXI	121	0	288	22	0
BK48CDGLL	G	MR114070	R1	CY7C1041CV33-10BAXA	121	0	168	30	0
BK48CDGLL	G	MR114070	R1	CY7C1041CV33-10BAXA	121	0	96	30	0
BK48DJALL	G	MR121049	R1	CY62177DV30LL-55BAXI	121	0	288	27	0
BK48DJALL	G	MR121049	R1	CY62177DV30LL-55BAXI	121	0	168	27	0
BK48DJALL	G	MR122051	R1	CY62177DV30LL-55BAXI	121	0	168	26	0
BK48DJALL	G	MR122051	R1	CY62177DV30LL-55BAXI	121	0	288	26	0
BK48DJALL	G	MR123043	R1	CY62177DV30LL-55BAXI	121	0	168	30	0



BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	121	0	288	24	0
-----------	----	----------	----	---------------------	-----	---	-----	----	---

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

**12 records**

<b>Sum</b>							<b>494</b>	<b>0</b>	<b>0</b>
------------	--	--	--	--	--	--	------------	----------	----------

**FBGA (1.0-1.27)**

BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	121	0	288	24	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	121	0	288	28	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	121	0	168	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	121	0	288	21	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	121	0	288	9	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	121	0	168	27	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	121	0	288	26	0
BB165GABLE	RA	NR112001	R5	CY7C1512KV18-250BZC	121	0	288	77	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	121	0	168	30	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	121	0	288	30	0
BB165BUALE	G	MR122029	R1	CY7C1512KV18-250BZC	121	0	288	28	0
BB165RNALE	RA	MR123038	R1	CY7C1313KV18-250BZC	121	0	168	30	0
BB165RNALE	RA	MR123038	R1	CY7C1313KV18-250BZC	121	0	288	30	0
BB165RNALE	RA	MR124010	R1	CY7C1313KV18-250BZC	121	0	168	30	0
BB165RNALE	RA	MR124010	R1	CY7C1313KV18-250BZC	121	0	288	30	0

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

**15 records**





**Sum**

**450 0**

**FBGA (1.0-1.27,  
Pb-free)**

BW165RJALL	RA	MR121035	R1	CY7C1414KV18-250BZXC	121	0	168	30	0
BW165GAALL	RA	NR112001	R4	CY7C1565KV18-500BZXI	121	0	288	76	0
BW165RBALL	RA	NR112001	R6	CY7C1570KV18-450BZXC	121	0	288	75	0
BW165RTALL	RA	120609	R1	CY7C16131KV18-300BZXC	121	0	288	104	0
BW165RTALL	RA	120609	R2	CY7C16131KV18-300BZXC	121	0	288	120	0
BW165GAALL	RA	120610	R1	CY7C1512KV18-250BZXC	121	0	288	99	0
BW165GAALL	RA	120610	R2	CY7C1512KV18-250BZXC	121	0	288	120	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	121	0	288	90	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	121	0	288	95	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	121	0	288	95	0
BW165RJALL	RA	MR121035	R1	CY7C1414KV18-250BZXC	121	0	288	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	121	0	288	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	121	0	168	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	121	0	168	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	121	0	288	30	0
BW165RJALL	RA	MR122009	R1	CY7C1412KV18-250BZXI	121	0	168	30	0
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	121	0	168	30	0
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	121	0	288	30	0



BW100EAGL	G	MR123012	R1	CYP15G0101DXB-BBXC	121	0	168	30	0
BW165RNALL	RA	MR123039	R1	CY7C1312KV18-250BZXC	121	0	168	30	0
BW100EAGL	G	MR123012	R1	CYP15G0101DXB-BBXC	121	0	288	27	0
BW165RNALL	RA	MR123039	R1	CY7C1312KV18-250BZXC	121	0	288	30	0
BW165RNALL	RA	MR124011	R1	CY7C1312KV18-250BZXI	121	0	168	30	0
BW165RNALL	RA	MR124011	R1	CY7C1312KV18-250BZXI	121	0	288	30	0
BW100EAGL	G	MR124025	R1	CYP15G0101DXB-BBXI	121	0	168	30	0
BW100EAGL	G	MR124025	R1	CYP15G0101DXB-BBXI	121	0	288	29	0

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

**26 records**

**Sum**

**1380 0**

**PBGA (1.27)**

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

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

**1 records**

**Sum**

**29 0**

**FLIPCHIP CSP (Pb-Free)**

FN30BBTRFP	AU	114003	R1	CY8C20767-24FDXCES	121	0	96	71	0
FN81AGAN	AU	MR114061	R1	CYWB0124ABX-FDXI	121	0	288	30	0
FN49ABDRCD	DT	MR122049	R1	CG7524AMT	121	0	168	30	0
FN49ABDRCD	DT	MR122049	R1	CG7524AMT	121	0	288	30	0

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

**4 records**



**Sum**

**161 0**

**PBGA (Cavity/Heat Sink, Pb-free)**

BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	121	0	168	30	0
BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	121	0	288	30	0

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

**2 records**

**Sum**

**60 0**

**PDIP (Pb-Free)**

PZ183DPDGN	RA	MR121012	R1	CP6238BM	121	0	168	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	121	0	288	30	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	121	0	168	30	0
PZ283ACAGL	X	MR121051	R1	CY7C199CN-15PXC	121	0	288	28	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	121	0	288	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	121	0	168	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	121	0	288	30	0
PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	121	0	168	30	0
PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	121	0	288	30	0
PZ286EAAGN	X	MR123020	R1	CY62256NLL-70PXC	121	0	168	30	0
PZ286EAAGN	X	MR123020	R1	CY62256NLL-70PXC	121	0	288	30	0
PZ183DPDGN	RA	MR123023	R1	CY7C63723C-PXC	121	0	168	30	0
PZ183DPDGN	RA	MR123023	R1	CY7C63723C-PXC	121	0	288	30	0



PZ183DPBGN	RA	MR124052	R1	CY7C63813-PXC	121	0	168	30	0
<b>Sum</b>			<b>14</b>					<b>418</b>	<b>0</b>

**PLCC (Pb-Free)**

JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	121	0	168	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	121	0	288	30	0
JZ52SFGAN	M	MR123051	R1	CY7C131-25JXCT	121	0	168	30	0
JZ52SFGAN	M	MR123051	R1	CY7C131-25JXCT	121	0	288	30	0
JZ52SFGAN	M	MR124008	R1	CY7C146-55JXC	121	0	168	30	0
JZ52SFGAN	M	MR124008	R1	CY7C146-55JXC	121	0	288	30	0
<b>Summary for Package Family: PLCC (Pb-Free)</b>			<b>6</b>	<b>records</b>					

<b>Sum</b>								<b>180</b>	<b>0</b>
------------	--	--	--	--	--	--	--	------------	----------

**PQFP (Pb-free)**

NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	121	0	168	30	0
NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	121	0	288	30	0
NZ52DXGAN	G	MR122023	R1	CY7C131-55NXC	121	0	168	30	0
NZ52DXGAN	G	MR123027	R1	CY7C131-55NXC	121	0	168	30	0
NZ52DXGAN	G	MR122023	R1	CY7C131-55NXC	121	0	288	30	0
NZ52DXGAN	G	MR123027	R1	CY7C131-55NXC	121	0	288	30	0
NZ52EAALL	M	MR123052	R1	CY7C131E-55NXC	121	0	168	30	0
NZ52EAALL	M	MR123052	R1	CY7C131E-55NXC	121	0	288	30	0



NZ52EAALL	M	MR124009	R1	CY7C131E-55NXC	121	0	168	30	0
NZ52EAALL	M	MR124009	R1	CY7C131E-55NXC	121	0	288	30	0

**Summary for Package Family: PQFP (Pb-free) 10 records**

**Sum 300 0**

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

LG16AQAAAL	G	114903	R2	CY8C20236A-24LKXI	121	0	168	120	0
LG16AQAAAL	G	114903	R3	CY8C20236A-24LKXI	121	0	168	120	0
LG16ABAALL	L	MR114030	R2	CY8C20236A-24LKXIT	121	0	168	30	0
LG16ABAALL	L	MR114032	R2	CY8C20236A-24LKXIT	121	0	168	30	0
LG16ABAALL	L	MR114030	R2	CY8C20236A-24LKXIT	121	0	288	30	0
LG16ABAALL	L	MR114032	R2	CY8C20236A-24LKXIT	121	0	288	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	121	0	168	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	121	0	288	29	0
LG16AQAAAL	G	MR122031	R1	CY7C64315-16LKXCT	121	0	168	30	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	121	0	96	90	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	121	0	168	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	121	0	96	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	121	0	168	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	121	0	96	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	121	0	168	89	0



LG16AEAAAL	MB	MR114063	R1	CY8C20234-12LKXAT	121	0	168	30	0
LG16AEAAAL	MB	MR114063	R1	CY8C20234-12LKXAT	121	0	96	30	0
LG16AQAAAL	G	MR122031	R1	CY7C64315-16LKXCT	121	0	288	30	0
LG16AQAAAL	G	MR123013	R1	CG7601AAT	121	0	168	30	0
LG16AQAAAL	G	MR123013	R1	CG7601AAT	121	0	288	30	0

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

**20 records**

**Sum**

**1138 0**

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

LK32AABAGL	L	MR114033	R2	CG7361AMT	121	0	168	30	0
LK32AABAGL	L	MR114033	R2	CG7361AMT	121	0	288	30	0

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

**2 records**

**Sum**

**60 0**

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

LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	121	0	96	30	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	121	0	168	30	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	121	0	96	30	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	121	0	168	30	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	121	0	96	30	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	121	0	168	30	0



LY56AGAGL	L	MR123008	R1	CY7C65630-56LFXAT	121	0	96	30	0
LY56AGAGL	L	MR123008	R1	CY7C65630-56LFXAT	121	0	168	30	0
LY56DGAGL	L	MR124029	R1	CY8CTMA120-56LFXAT	121	0	96	30	0
LY56DGAGL	L	MR124029	R1	CY8CTMA120-56LFXAT	121	0	168	30	0

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

**10 records**

**Sum 300 0**

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

LT40ABAAAL	G	114904	R1	CYRF6986-40LTXC	121	0	168	120	0
LT40ABAAAL	G	114904	R2	CYRF6986-40LTXC	121	0	168	120	0
LT40ABAAAL	G	114904	R3	CYRF6986-40LTXC	121	0	168	120	0
LT48CQAAAL	G	114905	R2	CYWUSB6934-48LTXC	121	0	168	120	0
LT32BBAAAL	G	114907	R1	CY8C21434-24LTXI	121	0	168	120	0
LT32BBAAAL	G	114907	R2	CY22391LTXC-06	121	0	168	126	0
LT32BBAAAL	G	114907	R3	CY7C63833-LTXC	121	0	168	120	0
LQ44AAAAALN	G	120407	R1	CY8CTMA443-44LQIES	121	0	168	80	0
LQ44AAAAALN	G	120407	R1	CY8CTMA443-44LQIES	121	0	168	80	0
LQ44AAAAALN	G	120407	R1	CY8CTMA443-44LQIES	121	0	288	79	0
LQ36AAAAAL	L	MR114031	R2	CP7340ATT	121	0	168	30	0
LT48AQAAAL	G	MR114071	R2	CY8C20636A-24LTXI	121	0	168	30	0
LQ48AQAAAL	G	MR121005	R1	CY8CTMA340-48LQI-01T	121	0	168	30	0



LT48CQAAAL	G	MR121009	R1	CYWUSB6935-48LTXIKG	121	0	168	30	0
LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	121	0	168	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	121	0	168	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	121	0	168	30	0
LT56BDAAGL	AE	MR121038	R1	CG7243AMT	121	0	168	30	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	121	0	288	24	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	121	0	288	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	121	0	168	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	121	0	288	25	0
LT88AAAAAL	RA	120309	R1	CY8CTMA884LTI-13	121	0	288	78	0
LT88AAAAAL	RA	120309	R2	CY8CTMA884LTI-13	121	0	168	80	0
LT88AAAAAL	RA	120309	R2	CY8CTMA884LTI-13	121	0	288	79	0
LQ48AEAAAL	RA	121105	R1	CY8CTMA443-48LQI	121	0	168	80	0
LQ48AEAAAL	RA	121105	R1	CY8CTMA443-48LQI	121	0	288	80	0
LQ48AEAAAL	RA	121105	R2	CY8CTMA443-48LQI	121	0	168	80	0
LQ48AEAAAL	RA	121105	R2	CY8CTMA443-48LQI	121	0	288	80	0
LQ48AEAAAL	RA	121105	R3	CY8CTMA443-48LQI	121	0	168	80	0
LQ48AEAAAL	RA	121105	R3	CY8CTMA443-48LQI	121	0	288	80	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	121	0	288	30	0
LT48ABBAAL	MB	MR114014	R1	CP7408AT	121	0	288	30	0





LT48AQAAAL	G	MR114071	R2	CY8C20636A-24LTXI	121	0	288	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	121	0	288	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	121	0	288	30	0
LT56BDAAGL	AE	MR121038	R1	CG7243AMT	121	0	288	27	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	121	0	168	30	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	121	0	288	30	0
LT56YAAAAL	G	MR122027	R1	CY7C65640A-LTXC	121	0	168	30	0
LQ32QAAAAL	G	MR122028	R1	CY8C20446A-24LQXI	121	0	168	30	0
LT48CQAAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	121	0	96	90	0
LT48CQAAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	121	0	168	90	0
LT48CQAAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	121	0	96	90	0
LT48CQAAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	121	0	168	90	0
LT48CQAAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	121	0	96	90	0
LT48CQAAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	121	0	168	90	0
LQ48AEAAAAL	RA	NR122003	R1	CY8CTMA463-48LQI	121	0	168	25	0
LQ48AEAAAAL	RA	NR122003	R2	CY8CTMA463-48LQI	121	0	168	25	0
LQ48AEAAAAL	RA	NR122003	R3	CY8CTMA463-48LQI	121	0	168	25	0
LT48BAAAAN	MB	RR114007	R1	CG7382AMT	121	0	168	77	0
LT40ABAAAAL	G	111812	R1	CYRF6936B-40LTXC	121	0	400	77	0
LT32BBAAAAL	G	111812	R2	CY7C60323-LTXC	121	0	400	80	0



LT68YAAAAL	G	111816	R2	CY8CLE04-68LTXI	121	0	400	79	0
LQ56AQAAAAL	G	112105	R1	CY8C24794-24LQXI	121	0	400	80	0
LT40ABAAAAL	G	114904	R1	CYRF6986-40LTXC	121	0	288	110	0
LT40ABAAAAL	G	114904	R2	CYRF6986-40LTXC	121	0	288	120	0
LT40ABAAAAL	G	114904	R3	CYRF6986-40LTXC	121	0	288	120	0
LT48DQAAAAL	G	114905	R3	CY8C3866LTI-068	121	0	288	110	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	121	0	288	110	0
LT68YAAAAL	G	114906	R3	CY8C3866LTI-030	121	0	288	110	0
LQ48AEAAAAL	RA	121202	R5	CY8CTMA443-48LQIES3	121	0	288	80	0
LQ48AEAAAAL	RA	121202	R5	CY8CTMA443-48LQIES3	121	0	168	80	0
LQ32QAAAAL	G	123701	R2	CY8C20436A-24LQXI	121	0	168	97	0
LQ56BAAAAL	RA	123801	R1	CY8CTMA463-56LQIES2	121	0	288	77	0
LQ56BAAAAL	RA	123801	R1	CY8CTMA463-56LQIES2	121	0	168	77	0
LQ56BAAAAL	RA	123801	R2	CY8CTMA463-56LQIES2	121	0	168	76	0
LQ56BAAAAL	RA	123801	R2	CY8CTMA463-56LQIES2	121	0	288	76	0
LQ56BAAAAL	RA	123801	R3	CY8CTMA463-56LQIES2	121	0	288	75	0
LQ56BAAAAL	RA	123801	R3	CY8CTMA463-56LQIES2	121	0	168	77	0
LQ36AAAAAN	MB	MR114015	R1	CY8CTMA340-LQI-01T	121	0	288	30	0
LQ36AAAAAL	L	MR114031	R2	CP7340ATT	121	0	288	30	0
LQ48AQAAAAL	G	MR121005	R1	CY8CTMA340-48LQI-01T	121	0	288	30	0



LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	121	0	288	30	0
LT32BAABGL	RA	MR122002	R1	CY8C21434-24LTXIT	121	0	288	30	0
LT32BAABGL	RA	MR122002	R1	CY8C21434-24LTXIT	121	0	168	30	0
LQ32QAAAAAL	G	MR122028	R1	CY8C20446A-24LQXI	121	0	288	30	0
LT88ABAAAAL	L	MR122033	R1	CY8CTMA616LTI-13T	121	0	168	30	0
LT88ABAAAAL	L	MR123003	R1	CY8CTMA616LTI-13	121	0	168	30	0
LT56BCAAGL	AE	MR123005	R1	CP7391AT	121	0	288	30	0
LT56BCAAGL	AE	MR123005	R1	CP7391AT	121	0	168	30	0
LQ48AAAAAL	RA	MR123014	R1	CY8CTMA340-48LQI-01	121	0	288	30	0
LQ48AAAAAL	RA	MR123014	R1	CY8CTMA340-48LQI-01	121	0	168	30	0
LT56BEAAGL	RA	MR123015	R1	CY8C24794-24LTXI	121	0	168	30	0
LQ48AEAAAAL	RA	NR122003	R1	CY8CTMA463-48LQI	121	0	288	25	0
LQ48AEAAAAL	RA	NR122003	R2	CY8CTMA463-48LQI	121	0	288	25	0
LQ48AEAAAAL	RA	NR122003	R3	CY8CTMA463-48LQI	121	0	288	25	0
LQ48ADAAAAL	G	NR122005	R1	CY8CTMA463-48LQI	121	0	168	24	0
LQ48ADAAAAL	G	NR122005	R1	CY8CTMA463-48LQI	121	0	288	24	0
LQ48ADAAAAL	G	NR122005	R2	CY8CTMA463-48LQI	121	0	168	24	0
LQ48ADAAAAL	G	NR122005	R2	CY8CTMA463-48LQI	121	0	288	24	0
LQ48ADAAAAL	G	NR122005	R3	CY8CTMA463-48LQI	121	0	168	25	0
LQ48ADAAAAL	G	NR122005	R3	CY8CTMA463-48LQI	121	0	288	25	0



LQ48AQAAAL	G	121902	R1	CY8CTMA500-48LQIES	121	0	168	90	0
LQ48AQAAAL	G	121902	R1	CY8CTMA500-48LQIES	121	0	288	90	0
LQ48AQAAAL	G	121902	R2	CY8CTMA500-48LQIES	121	0	168	83	0
LQ48AQAAAL	G	121902	R3	CY8CTMA500-48LQIES	121	0	168	85	0
LQ48AQAAAL	G	121902	R3	CY8CTMA500-48LQIES	121	0	288	84	0
LT68ADAAGL	RA	MR114046	R2	CY8C5568LTI-114	121	0	176	29	0
LT48DQAAAL	G	MR121056	R1	CY8C28623-24LTXIT	121	0	168	30	0
LT88ABAAAL	L	MR123003	R1	CY8CTMA616LTI-13	121	0	288	30	0
LT56BEAAGL	RA	MR123015	R1	CY8C24794-24LTXI	121	0	288	30	0
LQ48AQAAAL	G	MR124012	R1	CY8CTMA340-48LQI-01	121	0	168	30	0
LQ48AQAAAL	G	MR124012	R1	CY8CTMA340-48LQI-01	121	0	288	30	0
LT56BEAAGL	RA	MR124014	R1	CS6651DAT	121	0	168	30	0
LT56BEAAGL	RA	MR124014	R1	CS6651DAT	121	0	288	30	0
LQ56BAAAAL	RA	MR124016	R1	CY8CTMA463-56LQI	121	0	168	30	0
LQ56BAAAAL	RA	MR124016	R1	CY8CTMA463-56LQI	121	0	288	30	0
LQ56BAAAAL	RA	NR124001	R1	CY8CTMA463-56LQIT	121	0	168	25	0
LQ56BAAAAL	RA	NR124001	R2	CY8CTMA463-56LQIT	121	0	168	25	0
LQ56BAAAAL	RA	NR124001	R3	CY8CTMA463-56LQIES2	121	0	168	25	0

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

**111 records**

**Sum**

**6288 0**



**QSOP (Pb-Free)**

SQ2414ACGN	JT	MR114029	R2	CY7C63823-QXC	121	0	168	30	0
SQ2414ACGN	JT	MR121036	R1	CY7C63823-QXC	121	0	168	30	0
SQ2414ACGN	JT	MR114029	R2	CY7C63823-QXC	121	0	288	15	0
SQ2414ACGN	JT	MR121036	R1	CY7C63823-QXC	121	0	288	25	0

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

**Sum 100 0**

**SNC (Pb-Free)**

SY2831BHN	JT	MR123036	R1	CG7261AT	121	0	96	30	0
SY2831BHN	JT	MR123036	R1	CG7261AT	121	0	168	30	0
SY2831BHN	JT	MR124037	R1	CY62256NLL-70SNXA	121	0	96	30	0

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

**Sum 90 0**

**SOIC**

S1615KDAGN	RA	MR123017	R1	CY2309SC-1H	121	0	288	30	0
S1615KDAGN	RA	MR123017	R1	CY2309SC-1H	121	0	168	30	0

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

**Sum 60 0**

**SOIC (Pb Free)**

SZ324513AN	JT	115206	R1	CY62128BNLL-70SXE	121	0	96	80	0
------------	----	--------	----	-------------------	-----	---	----	----	---



SZ324513AN	JT	115206	R1	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	115206	R2	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	115206	R2	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	115206	R3	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	115206	R3	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	120110	R1	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	120110	R1	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	120110	R2	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	120110	R2	CY62128BNLL-70SXE	121	0	168	80	0
SZ324513AN	JT	120110	R3	CY62128BNLL-70SXE	121	0	96	80	0
SZ324513AN	JT	120110	R3	CY62128BNLL-70SXE	121	0	168	80	0
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	121	0	168	30	0
SZ32451BLN	JT	MR121010	R1	CY7C53120E2-10SXI	121	0	168	30	0
SZ24315DGN	RA	MR121011	R1	CY7C63823-SXC	121	0	168	30	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	121	0	96	30	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	121	0	168	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	121	0	168	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	121	0	288	30	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	121	0	168	77	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	121	0	288	77	0



SZ1615FAL	T	122206	R1	CY8C20237-24SXI	121	0	288	86	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	121	0	168	96	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	121	0	288	86	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	121	0	168	96	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	121	0	168	95	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	121	0	288	85	0
SZ1615DGN	M	MR121048	R1	CY8C21234-24SXI	121	0	168	30	0
SZ1615DGN	M	MR121048	R1	CY8C21234-24SXI	121	0	288	30	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	121	0	96	30	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	121	0	168	30	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	121	0	168	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	121	0	96	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	121	0	168	30	0
SZ324513AN	JT	MR122012	R1	CY62128BNLL-70SXET	121	0	96	30	0
SZ324513AN	JT	MR122012	R1	CY62128BNLL-70SXET	121	0	168	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	121	0	288	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	121	0	168	30	0
SZ815YAALN	RA	122802	R1A	CY14E101Q2A-SXI	121	0	168	77	0
SZ24315EGN	RA	MR114020	R1	CY7C63743C-SXCT	121	0	288	30	0
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	121	0	288	30	0



SZ32451BLN	JT	MR121010	R1	CY7C53120E2-10SXI	121	0	288	30	0
SZ24315DGN	RA	MR121011	R1	CY7C63823-SXC	121	0	288	30	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	121	0	288	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	121	0	288	30	0
SZ2035BAAL	JT	MR122048	R1	CY8C27243-24SXIT	121	0	288	30	0
SZ2035BAAL	JT	MR122048	R1	CY8C27243-24SXIT	121	0	168	30	0
SZ815CGAAS	M	MR123007	R1	CY2305CSXA-1HT	121	0	168	30	0
SZ815CGAAS	M	MR123007	R1	CY2305CSXA-1HT	121	0	96	30	0
SZ183CPBAN	RA	MR123024	R1	CY7C63813-SXC	121	0	288	30	0
SZ183CPBAN	RA	MR123024	R1	CY7C63813-SXC	121	0	168	30	0
SZ815YAALN	RA	122802	R1A	CY14E101Q2A-SXI	121	0	288	77	0
SZ1615FAL	T	MR122044	R1	CY8C20180-SX2I	121	0	288	30	0
SZ815CGAAS	M	MR124031	R1	CY2305CSXA-1HT	121	0	96	30	0
SZ815CGAAS	M	MR124031	R1	CY2305CSXA-1HT	121	0	168	30	0
SZ324513AN	JT	MR124038	R1	CY62128BNLL-70SXAT	121	0	96	30	0
SZ324513AN	JT	MR124038	R1	CY62128BNLL-70SXAT	121	0	168	30	0
SZ323AEGAS	M	MR124089	R1	CY14B256LA-SZ45XIT	121	0	168	77	0

**Summary for Package Family: SOIC (Pb Free)**

**58**

**records**

**Sum**

**2939**

**0**

**SOJ**





VZ43GAAAGN	X	MR113065	R1	CY7C197BN-15VC	121	0	288	30	0
------------	---	----------	----	----------------	-----	---	-----	----	---

**Summary for Package Family:  
SOJ**

**1 records**

**Sum 30 0**

**SOJ (Pb-Free)**

VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	121	0	168	30	0
VZ32314CLL	JT	MR121024	R1	CY7C1009D-10VXI	121	0	168	30	0
VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	121	0	288	30	0
VZ444ADCLN	JT	MR122038	R1	CY7C1041D-10VXIT	121	0	168	30	0
VZ32314CLL	JT	MR121024	R1	CY7C1009D-10VXI	121	0	288	30	0
VZ28313CLN	JT	MR122050	R1	CY7C1399BN-12VXI	121	0	288	30	0
VZ28313CLN	JT	MR122050	R1	CY7C1399BN-12VXI	121	0	168	30	0
VZ32314CLL	JT	MR123033	R1	CY7C1018DV33-10VXIT	121	0	288	30	0
VZ32314CLL	JT	MR123033	R1	CY7C1018DV33-10VXIT	121	0	168	30	0
VZ444ADCLN	JT	MR122038	R1	CY7C1041D-10VXIT	121	0	288	30	0
VZ2847AAAR	OP	MR114074	R1	CY7C107D-10VXI	121	0	168	26	0
VZ444ACCLN	JT	MR124002	R1	CY7C1021D-10VXIT	121	0	168	30	0
VZ444ACCLN	JT	MR124002	R1	CY7C1021D-10VXIT	121	0	288	30	0

**Summary for Package Family: SOJ (Pb-Free)**

**13 records**

**Sum 386 0**

**SSOP (Pb-Free)**



SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	121	0	168	30	0
SP483FBK GN	RA	MR121019	R1	CY8C20536A-24PVXIT	121	0	168	30	0
SP282ABB GN	RA	MR121043	R1	CY8C27443-24PVXIT	121	0	168	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	121	0	168	30	0
SP483MBB GN	RA	MR114067	R2	CY8C3866PVI-021	121	0	168	30	0
SP483EBCAL	JT	MR114073	R2	CY8C29666-24PVXI	121	0	168	30	0
SP483EBCAL	JT	MR114073	R2	CY8C29666-24PVXI	121	0	288	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	121	0	168	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	121	0	288	30	0
SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	121	0	288	30	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	121	0	96	29	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	121	0	168	28	0
SP282ABB GN	RA	MR121043	R1	CY8C27443-24PVXIT	121	0	288	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	121	0	288	30	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	121	0	96	30	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	121	0	168	30	0
SP282ABB GN	RA	MR122004	R1	CY8C27443-24PVXIT	121	0	168	30	0
SP282ABB GN	RA	MR122004	R1	CY8C27443-24PVXIT	121	0	288	30	0
SP2822BGL	M	MR122006	R1	CY8C21534-12PVXET	121	0	96	30	0
SP2822BGL	M	MR122006	R1	CY8C21534-12PVXET	121	0	168	30	0



SP483FBKGN	RA	MR121019	R1	CY8C20536A-24PVXIT	121	0	288	30	0
SP483FBKGN	RA	MR122003	R1	CY8C20536A-24PVXIT	121	0	288	29	0
SP483FBKGN	RA	MR122003	R1	CY8C20536A-24PVXIT	121	0	168	29	0
SP563DBC GN	JT	MR122025	R1	CY7C68013A-56PVXC	121	0	288	29	0
SP483FBKGN	RA	MR123016	R1	CY8C20546A-24PVXIT	121	0	168	30	0
SP483FBKGN	RA	MR123016	R1	CY8C20546A-24PVXIT	121	0	288	30	0
SP28214GL	T	MR123055	R1	CY8C9520A-24PVXI	121	0	168	30	0
SP28214GL	T	MR123055	R1	CY8C9520A-24PVXI	121	0	288	30	0
SP483FBKGN	RA	MR124020	R1	CY8C20566A-24PVXIT	121	0	288	23	0
SP2822BGL	M	MR124030	R1	CY8C21534-24PVXAT	121	0	96	30	0
SP2822BGL	M	MR124030	R1	CY8C21534-24PVXAT	121	0	168	30	0
SP28214GL	T	MR124035	R1	CY8C24423A-24PVXI	121	0	168	30	0

**Summary for Package Family: SSOP (Pb-Free) 32 records**

**Sum 947 0**

**TQFP (Pb-Free)**

AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	121	0	288	29	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	121	0	168	30	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	121	0	288	30	0
AZ100SFGAL	JT	MR114068	R1	CY8C3245AXI-158	121	0	168	30	0
AZ144AAAGR	Q	MR114081	R2	CY7C057V-12AXC	121	0	168	30	0



AZ144AAAGR	Q	MR114081	R2	CY7C057V-12AXC	121	0	288	30	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	121	0	168	30	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	121	0	288	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	121	0	96	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	121	0	168	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	121	0	288	30	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	121	0	168	30	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	121	0	288	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	121	0	168	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	121	0	288	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	121	0	96	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	121	0	168	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	121	0	168	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	121	0	288	30	0
AZ100SFGAL	JT	MR114068	R1	CY8C3245AXI-158	121	0	288	30	0
AZ32BXGAN	Q	MR122024	R1	CY7C4201V-15AXC	121	0	168	30	0
AZ128BGAL	G	MR122030	R1	CY7C64713-128AXC	121	0	168	30	0
AZ128BGAL	G	MR122030	R1	CY7C64713-128AXC	121	0	288	30	0
AZ64JAAALL	M	MR123004	R1	CY7C144E-15AXC	121	0	168	30	0
AZ64JAAALL	M	MR123004	R1	CY7C144E-15AXC	121	0	288	30	0



AZ100KGAN	G	MR123041	R1	CY7C024AV-25AXC	121	0	168	30	0
AZ32BXGAN	Q	MR122024	R1	CY7C4201V-15AXC	121	0	288	30	0
AZ100SFEAL	JT	MR123035	R1	CP7529AT	121	0	168	20	0
AZ100SFEAL	JT	MR123035	R1	CP7529AT	121	0	168	9	0
AZ100SFEAL	JT	MR123035	R1	CP7529AT	121	0	96	29	0
AZ100KGAN	G	MR123041	R1	CY7C024AV-25AXC	121	0	288	30	0
AZ64JAAALL	M	MR124007	R1	CY7C144E-55AXC	121	0	168	30	0
AZ64JAAALL	M	MR124007	R1	CY7C144E-55AXC	121	0	288	30	0
AZ100RJBLN	R	MR124034	R1	CY7C1350G-200AXCT	121	0	168	30	0
AZ100RJBLN	R	MR124034	R1	CY7C1350G-200AXCT	121	0	288	30	0
AZ100KGAN	G	MR124050	R1	CY7C024AV-25AXI	121	0	168	30	0

**Summary for Package Family: TQFP (Pb-Free) 36 records**

**Sum 1047 0**

**TSOP (Pb-free)**

ZT28R2BCLN	JT	MR114004	R1	CY62256VNLL-70ZXI	121	0	288	30	0
ZT32RBBALL	T	MR114065	R1	CY62128ELL-45ZXA	121	0	96	30	0
ZT32RBBALL	T	MR121034	R1	CY62128ELL-45ZXA	121	0	96	30	0
ZT32RBBALL	T	MR121034	R1	CY62128ELL-45ZXA	121	0	168	30	0
ZT32RBBALL	T	MR114065	R1	CY62128ELL-45ZXA	121	0	168	30	0
ZT28R2ABGN	JT	MR121061	R1	CY62256NLL-55ZXAT	121	0	168	30	0



ZT28R2ABGN	JT	MR121061	R1	CY62256NLL-55ZXAT	121	0	96	30	0
ZT28R2ABGN	JT	MR122035	R1	CY7C62256NLL-55ZXA	121	0	168	29	0
ZT28R2ABGN	JT	MR122035	R1	CY7C62256NLL-55ZXA	121	0	96	30	0
ZT32RABALL	T	MR122042	R1	CY62128EV30LL-45ZXIT	121	0	288	30	0
ZT32RABALL	T	MR122042	R1	CY62128EV30LL-45ZXIT	121	0	168	30	0
ZT28R2ABGN	JT	MR123009	R1	CY62256NLL-55ZXAT	121	0	168	30	0
ZT28R2ABGN	JT	MR123009	R1	CY62256NLL-55ZXAT	121	0	96	30	0
ZT32RAEDLN	RA	MR123031	R1	CY62128EV30LL-45ZXI	121	0	168	30	0
ZT32RAEDLN	RA	MR123031	R1	CY62128EV30LL-45ZXI	121	0	288	30	0
ZT32RAEDLN	RA	MR124003	R1	CY62128EV30LL-45ZXIT	121	0	168	30	0
ZT32RAEDLN	RA	MR124003	R1	CY62128EV30LL-45ZXIT	121	0	288	30	0
ZT28R2ABGN	JT	MR124039	R1	CY62256NLL-55ZXAT	121	0	96	30	0
ZT28R2ABGN	JT	MR124039	R1	CY62256NLL-55ZXAT	121	0	168	30	0

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

**Sum 569 0**

**TSOP I (Pb-Free)**

ZB32RHABLN	JT	MR122021	R1	CY62138FV30LL-45ZAXA	121	0	96	30	0
ZB32RHABLN	JT	MR122021	R1	CY62138FV30LL-45ZAXA	121	0	168	30	0
ZB32RHABLN	JT	MR123001	R1	CY62138FV30LL-45ZAXAT	121	0	168	30	0
ZB32RHABLN	JT	MR123001	R1	CY62138FV30LL-45ZAXAT	121	0	96	30	0



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

4

records

Sum

120

0

TSOP II (Pb-Free)

ZW324CBALR	T	MR114057	R1	CY62148EV30LL-45ZSXAT	121	0	96	30	0
ZW324CBALR	T	MR114057	R1	CY62148EV30LL-45ZSXAT	121	0	168	25	0
ZW44AAXAGL	RA	MR121003	R1	CY7C1021D-10ZSXIT	121	0	168	30	0
ZW44ADXAGL	RA	MR121018	R1	CY14B104NA-ZS45XIT	121	0	168	30	0
ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	121	0	168	30	0
ZW324FBGL	T	MR121026	R1	CY7C1019CV33-10ZXAX	121	0	96	30	0
ZW324FBGL	T	MR121026	R1	CY7C1019CV33-10ZXAX	121	0	168	30	0
ZW324FBGL	T	114908	R5	7A1319GC	121	0	96	43	0
ZW324FBGL	T	114908	R5	7A1319GC	121	0	168	43	0
ZW324FBGL	T	114908	R5	7A1319GC	121	0	288	43	0
ZW324FBGL	T	114908	R6	7A1319GC	121	0	96	43	0
ZW324FBGL	T	114908	R6	7A1319GC	121	0	168	43	0
ZW324FBGL	T	114908	R6	7A1319GC	121	0	288	43	0
ZW444ALLN	JT	114908	R7	7A122101GC	121	0	288	43	0
ZW444ALLN	JT	114908	R7	7A122101GC	121	0	168	43	0
ZW444ALLN	JT	114908	R7	7A122101GC	121	0	96	43	0
ZW324CBALR	T	MR114005	R1	CY62148EV30LL-45ZSXAT	121	0	168	30	0



ZW324CBALR	T	MR114005	R1	CY62148EV30LL-45ZSXAT	121	0	96	30	0
ZW444AKCLN	R	MR114064	R1	CY7C1011CV33-12ZSXE	121	0	168	30	0
ZW444AKCLN	R	MR114064	R1	CY7C1011CV33-12ZSXE	121	0	96	30	0
ZW444AHILL	JT	MR114069	R1	CY62126EV30LL-45XAKJ	121	0	168	30	0
ZW444AHILL	JT	MR114069	R1	CY62126EV30LL-45XAKJ	121	0	96	30	0
ZW444AXAGL	RA	MR121003	R1	CY7C1021D-10ZSXIT	121	0	288	29	0
ZW444ADXAGL	RA	MR121018	R1	CY14B104NA-ZS45XIT	121	0	288	30	0
ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	121	0	288	30	0
ZW444AMCLN	JT	MR121037	R2	CY62147EV30LL-45ZSXIT	121	0	288	30	0
ZW444AMCLN	JT	MR121037	R2	CY62147EV30LL-45ZSXIT	121	0	168	30	0
ZW444VDLL	JT	MR121057	R1	CY62147EV30LL-45XAKJ	121	0	168	30	0
ZW444VDLL	JT	MR121057	R1	CY62147EV30LL-45XAKJ	121	0	96	30	0
ZW444RACLN	JT	MR122013	R1	CY62137VNLL-70ZSXA	121	0	168	28	0
ZW444RACLN	JT	MR122013	R1	CY62137VNLL-70ZSXA	121	0	96	28	0
ZW324FBGL	T	MR122036	R1	CY7C1019CV33-10ZXAX	121	0	168	30	0
ZW324FBGL	T	MR122036	R1	CY7C1019CV33-10ZXAX	121	0	96	30	0
ZW444AXXAGL	RA	MR122041	R1	CY14B101LA-ZS45XI	121	0	168	30	0
ZW444AOLN	JT	MR123002	R1	CY62146ELL-45ZSXA	121	0	168	30	0
ZW444AOLN	JT	MR123002	R1	CY62146ELL-45ZSXA	121	0	96	30	0
ZW324FBGL	T	MR123010	R1	CY7C1019CV33-10ZXAT	121	0	168	30	0





ZW324FBGL	T	MR123010	R1	CY7C1019CV33-10ZXAT	121	0	96	30	0
ZW44AXXAGL	RA	MR123026	R1	CY14B101LA-ZS45XIT	121	0	168	29	0
ZW544AALL	G	MR123028	R1	CY7C1069AV33-10ZXC	121	0	168	30	0
ZW444ALLR	G	MR123045	R1	CY7C1051DV33-12ZSXIT	121	0	168	30	0
ZW54BGALL	G	MR122040	R1	CY7C1069DV33-10ZSXI	121	0	168	30	0
ZW54BGALL	G	MR122040	R1	CY7C1069DV33-10ZSXI	121	0	288	28	0
ZW44AXXAGL	RA	MR122041	R1	CY14B101LA-ZS45XI	121	0	288	30	0
ZW44AXXAGL	RA	MR123026	R1	CY14B101LA-ZS45XIT	121	0	288	29	0
ZW544AALL	G	MR123028	R1	CY7C1069AV33-10ZXC	121	0	288	30	0
ZW444ALLR	G	MR123045	R1	CY7C1051DV33-12ZSXIT	121	0	288	28	0
ZW44ABXAGL	RA	MR124004	R1	CY62146ESL-45ZSXI	121	0	168	30	0
ZW44ABXAGL	RA	MR124004	R1	CY62146ESL-45ZSXI	121	0	288	30	0
ZW544AALL	G	MR124006	R1	CY7C1061AV33-10ZXI	121	0	168	30	0
ZW444ALLR	G	MR124042	R1	CY7C1051DV33-10ZSXI	121	0	168	30	0
ZW444ALLR	G	MR124042	R1	CY7C1051DV33-10ZSXI	121	0	288	30	0
ZW444AKDLN	JT	MR124048	R1	CY7C1041CV33-20ZSXET	121	0	96	30	0

**Summary for Package Family: TSOP II (Pb-Free) 53 records**

**Sum 1691 0**

**RTSOP (Pb-free)**

ZY28R2CLN	JT	MR114009	R1	CY62256VNLL-70ZRXIT	121	0	288	30	0
-----------	----	----------	----	---------------------	-----	---	-----	----	---



Summary for Package Family: RTSOP (Pb-free)

1

records

Sum								30	0
<b>TSSOP (Pb-Free)</b>									
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	121	0	168	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	121	0	288	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	121	0	168	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	121	0	288	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	121	0	168	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	121	0	288	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	121	0	168	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	121	0	288	30	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	121	0	168	30	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	121	0	288	30	0
ZZ1620GBAN	RA	MR123018	R1	CY22150FZXCT	121	0	176	30	0
ZZ2014BGN	T	MR123021	R1	CY25404ZXI217T	121	0	168	30	0
ZZ2014BGN	T	MR123021	R1	CY25404ZXI217T	121	0	288	30	0
ZZ1620GBAN	RA	MR123018	R1	CY22150FZXCT	121	0	288	30	0
ZZ1620GBAN	RA	MR124001	R1	CY22393FXCT	121	0	168	30	0
ZZ1620GBAN	RA	MR124001	R1	CY22393FXCT	121	0	288	30	0
ZZ2014BGN	T	MR124005	R1	CY25404ZXI011T	121	0	168	30	0



ZZ2014BGN	T	MR124005	R1	CY25404ZXI011T	121	0	288	30	0
<b>Summary for Package Family: TSSOP (Pb-Free)</b>			<b>18</b>	<b>records</b>					
<b>Sum</b>								<b>540</b>	<b>0</b>
<b>VFBGA (0.75-0.8, 0.3mm)</b>									
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	121	0	168	30	0
BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	121	0	288	30	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	121	0	288	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	121	0	288	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	121	0	288	30	0
BV48CRALE	G	MR123032	R1	CY62167EV30LL-45BVIT	121	0	288	30	0
BV48CRALE	G	MR123032	R1	CY62167EV30LL-45BVIT	121	0	168	30	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm)</b>			<b>7</b>	<b>records</b>					
<b>Sum</b>								<b>210</b>	<b>0</b>
<b>VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>									
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	121	0	168	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	121	0	168	30	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	121	0	288	103	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	121	0	288	99	0
BZ48CEAALL	G	MR114006	R1	CY62147EV30LL-45B2XA	121	0	96	30	0
BZ48CEAALL	G	MR114006	R1	CY62147EV30LL-45B2XA	121	0	168	30	0



BZ48CNAALL	G	MR114018	R1	CY62167DV30LL-55BVXI	121	0	288	29	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	121	0	288	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	121	0	288	30	0
BZ48CEAALL	G	MR121025	R1	CY62147EV30LL-45BVXA	121	0	96	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	121	0	168	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	121	0	288	30	0
BZ48CEAALL	G	MR122011	R1	CY62147EV30LL-45BVXA	121	0	96	30	0
BZ48CEAALL	G	MR121025	R1	CY62147EV30LL-45BVXA	121	0	168	30	0
BZ48CEAALL	G	MR122011	R1	CY62147EV30LL-45BVXA	121	0	168	30	0
BZ48CEAALL	G	MR123034	R1	CY62147EV30LL-45BVXA	121	0	168	30	0
BZ48CEAALL	G	MR123034	R1	CY62147EV30LL-45BVXA	121	0	96	30	0
BZ48DAGLL	RA	MR122046	R1	CY62137FV30LL-45BVXI	121	0	168	30	0
BZ56BGALL	RA	MR122045	R1	CY7C68013A-56BAXC	121	0	288	30	0
BZ56BGALL	RA	MR122045	R1	CY7C68013A-56BAXC	121	0	168	30	0
BZ56GABGL	RA	MR123022	R1	CY7C68053-56BAXI	121	0	168	30	0
BZ84AAAAAL	RA	NR122004	R1	CY8CTMA1036BZI-12	121	0	288	25	0
BZ84AAAAAL	RA	NR122004	R1	CY8CTMA1036BZI-12	121	0	168	25	0
BZ84AAAAAL	RA	NR122004	R2	CY8CTMA1036BZI-12	121	0	288	25	0
BZ84AAAAAL	RA	NR122004	R2	CY8CTMA1036BZI-12	121	0	168	25	0
BZ84AAAAAL	RA	NR122004	R3	CY8CTMA1036BZI-12	121	0	288	25	0



BZ84AAAAAL	RA	NR122004	R3	CY8CTMA1036BZI-12	121	0	168	25	0
BZ84ACAAAL	G	NR122002	R1	CY8CTMA1036BZI-12	121	0	288	25	0
BZ84ACAAAL	G	NR122002	R1	CY8CTMA1036BZI-12	121	0	168	25	0
BZ84ACAAAL	G	NR122002	R2	CY8CTMA1036BZI-12	121	0	288	25	0
BZ84ACAAAL	G	NR122002	R2	CY8CTMA1036BZI-12	121	0	168	25	0
BZ84ACAAAL	G	NR122002	R3	CY8CTMA1036BZI-12	121	0	288	25	0
BZ84ACAAAL	G	NR122002	R3	CY8CTMA1036BZI-12	121	0	168	25	0
BZ56GABGL	RA	MR123022	R1	CY7C68053-56BAXI	121	0	288	30	0
BZ48CEAALL	G	MR124028	R1	CY62147EV30LL-45BVXA	121	0	96	30	0
BZ48CEAALL	G	MR124028	R1	CY62147EV30LL-45BVXA	121	0	168	30	0
BZ48CWALL	G	MR124045	R1	CY7C1061DV33-10BVXIT	121	0	168	30	0
BZ48CWALL	G	MR124045	R1	CY7C1061DV33-10BVXIT	121	0	288	28	0
<b>Summary for Package Family: VFBGA (0.75-0.8, 0.3mm, Pb-Free)</b>			<b>38</b>	<b>records</b>					
<b>Sum</b>							<b>1219</b>	<b>0</b>	
<b>PBGA (Pb-Free)</b>									
BY119SALL	G	MR124018	R1	CY7C1354C-200BGXC	121	0	168	30	0
BY119SALL	G	MR124018	R1	CY7C1354C-200BGXC	121	0	288	30	0
<b>Summary for Package Family: PBGA (Pb-Free)</b>			<b>2</b>	<b>records</b>					
<b>Sum</b>							<b>60</b>	<b>0</b>	



## Summary Detail -- TCT Performance Over Time

BUILDKIT	ASSY SITE	EVALNUM	TV	DEVICE	TEMP	VOLT	READOUT	SS	REJECT	FA	COMMENTS
<b>UFBGA (Pb-free)</b>											
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	150/-65	0	500	76	0		
BU84AAAAAL	G	121302	R2	CY8CTMA1036BUI-33ES2	150/-65	0	500	77	0		
BU84AAAAAL	G	121302	R3	CY8CTMA1036BUI-33ES2	150/-65	0	500	77	0		
BU84AAAAAL	G	121302	R1	CY8CTMA1036BUI-33ES2	150/-65	0	1000	76	0		
BU84AAAAAL	G	121302	R2	CY8CTMA1036BUI-33ES2	150/-65	0	1000	77	0		
BU84AAAAAL	G	121302	R3	CY8CTMA1036BUI-33ES2	150/-65	0	1000	77	0		
BU60AAAAAL	G	NR122006	R1	CY8CTMA463-60BUI	150/-65	0	1000	23	0		
BU60AAAAAL	G	NR122006	R1	CY8CTMA463-60BUI	150/-65	0	500	25	0		
BU60AAAAAL	G	NR122006	R2	CY8CTMA463-60BUI	150/-65	0	1000	25	0		
BU60AAAAAL	G	NR122006	R2	CY8CTMA463-60BUI	150/-65	0	500	25	0		
BU60AAAAAL	G	NR122006	R3	CY8CTMA400-60BUI	150/-65	0	1000	25	0		
BU60AAAAAL	G	NR122006	R3	CY8CTMA400-60BUI	150/-65	0	500	25	0		
BU84ABAAAL	AC	123603	R1	CY8CTMA1036BUI-33ES2	150/-65	0	1000	68	0		
BU84ABAAAL	AC	123603	R2	CY8CTMA1036BUI-33ES2	150/-65	0	1000	78	0		
BU84ABAAAL	AC	123603	R3	CY8CTMA1036BUI-33ES2	150/-65	0	1000	78	0		
BU84AAAAAL	G	123605	R1	CY8CTMA1036BUI-33ES2	150/-65	0	1000	76	0		



BU84AAAAAL	G	123605	R2	CY8CTMA1036BUI-33ES2	150/-65	0	1000	74	0	
BU84AAAAAL	G	123605	R3	CY8CTMA1036BUI-33ES2	150/-65	0	1000	74	0	
BU60AAAAAL	G	MR123040	R1	CY8CTMA463-60BUI	150/-65	0	500	30	0	
BU60AAAAAL	G	MR123040	R1	CY8CTMA463-60BUI	150/-65	0	1000	30	0	
BU60AAAAAL	G	MR124013	R1	CY8CTMA463-60BUI	150/-65	0	500	30	0	
<b>Summary for Package Family: UFBGA (Pb-free)</b>			<b>21</b>	<b>records</b>						
<b>Sum</b>								<b>1146</b>	<b>0</b>	
<b>FBGA (0.75-0.8, 0.3mm)</b>										
BA48ZGALE	G	MR113048	R1	CY7C1021BNV33L-15BAI	150/-65	0	1000	30	0	
BA48ZGALE	G	MR121027	R1	CY7C1021BNV33L-15BAI	150/-65	0	1000	30	0	
BA48ZGALE	G	MR121027	R1	CY7C1021BNV33L-15BAI	150/-65	0	500	30	0	
BA48ZGALE	G	MR122034	R1	CY7C1021BNV33L-15BAI	150/-65	0	1000	30	0	
BA48ZGALE	G	MR122034	R1	CY7C1021BNV33L-15BAI	150/-65	0	500	30	0	
BA48ZGALE	G	MR123044	R1	CY7C1021BNV33L-15BAIT	150/-65	0	500	30	0	
BA48ZGALE	G	MR123044	R1	CY7C1021BNV33L-15BAIT	150/-65	0	1000	29	0	
<b>Summary for Package Family: FBGA (0.75-0.8, 0.3mm)</b>			<b>7</b>	<b>records</b>						
<b>Sum</b>								<b>209</b>	<b>0</b>	
<b>FBGA (0.75-0.8, 0.3mm, Pb-free)</b>										
BK48JAAALL	G	MR121088	R1	CY7C1071DV33-12BAXIT	150/-65	0	400	12	0	
BK48JAAALL	G	MR121088	R1	CY7C1071DV33-12BAXIT	150/-65	0	500	12	0	



BK48JAAALL	G	MR121088	R1	CY7C1071DV33-12BAXIT	150/-65	0	590	12	0
BK121BGAGL	RA	114603	R2	CYUSB3014-BZXIES	150/-65	0	500	81	0
BK121BGAGL	RA	114603	R2	CYUSB3014-BZXIES	150/-65	0	1000	81	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150/-65	0	500	81	0
BK121BGAGL	RA	114603	R3	CYUSB3014-BZXIES	150/-65	0	1000	81	0
BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	150/-65	0	500	30	0
BK48DJALL	G	MR121049	R1	CY62177DV30LL-55BAXI	150/-65	0	500	27	0
BK48DLBLL	G	MR113033	R1	CY62187EV30LL-55BAXI	150/-65	0	1000	29	0
BK48DJALL	G	MR114042	R1	CY62177DV30LL-55BAXI	150/-65	0	1000	30	0
BK48CDGLL	G	MR114070	R1	CY7C1041CV33-10BAXA	150/-65	0	500	29	0
BK121AGAGL	RA	MR114079	R1	CYWB0220ABS-BZXI	150/-65	0	500	30	0
BK48DJALL	G	MR121049	R1	CY62177DV30LL-55BAXI	150/-65	0	1000	27	0
BK48DJALL	G	MR122051	R1	CY62177DV30LL-55BAXI	150/-65	0	1000	30	0
BK48DJALL	G	MR122051	R1	CY62177DV30LL-55BAXI	150/-65	0	500	30	0
BK121AGAGL	RA	MR123025	R1	CYWB0224ABS-BZXI	150/-65	0	500	30	0
BK48DJALL	G	MR123043	R1	CY62177DV30LL-55BAXI	150/-65	0	500	30	0
BK48CDGLL	G	MR114070	R1	CY7C1041CV33-10BAXA	150/-65	0	1000	27	0
BK121AGAGL	RA	MR123025	R1	CYWB0224ABS-BZXI	150/-65	0	1000	30	0
BK48DJALL	G	MR123043	R1	CY62177DV30LL-55BAXI	150/-65	0	1000	30	0
BK48DJALL	G	MR123053	R1	CY62177DV30LL-55BAXIT	150/-65	0	500	29	0





BK48DJALL	G	MR123053	R1	CY62177DV30LL-55BAXIT	150/-65	0	1000	29	0
-----------	---	----------	----	-----------------------	---------	---	------	----	---

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

**23 records**

**Sum**

**827 0**

**FBGA (1.0-1.27)**

BB165AVLE	RA	MR114038	R1	CY7C1305TV25-167BZC	150/-65	0	1000	30	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	150/-65	0	500	30	0
BB165RNALE	RA	MR114058	R1	CY7C1312KV18-250BZC	150/-65	0	1000	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	150/-65	0	500	30	0
BB165RNALE	RA	MR121017	R1	CY7C1313KV18-250BZC	150/-65	0	1000	30	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	150/-65	0	500	30	0
BB165AHLE	G	MR121020	R1	CY7C1420BV18-200BZC	150/-65	0	1000	29	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	150/-65	0	500	30	0
BB165BUALE	G	MR122029	R1	CY7C1512KV18-250BZC	150/-65	0	500	30	0
BB165RNALE	RA	MR122017	R1	CY7C1312KV18-250BZC	150/-65	0	1000	29	0
BB165BUALE	G	MR122029	R1	CY7C1512KV18-250BZC	150/-65	0	1000	30	0
BB165RNALE	RA	MR123038	R1	CY7C1313KV18-250BZC	150/-65	0	500	30	0
BB165RNALE	RA	MR123038	R1	CY7C1313KV18-250BZC	150/-65	0	1000	30	0
BB165RNALE	RA	MR124010	R1	CY7C1313KV18-250BZC	150/-65	0	500	30	0
BB165RNALE	RA	MR124010	R1	CY7C1313KV18-250BZC	150/-65	0	1000	30	0

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

**15 records**



Sum

448 0

**FBGA (1.0-1.27,  
Pb-free)**

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



BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150/-65	0	1000	95	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150/-65	0	500	100	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150/-65	0	1000	95	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150/-65	0	2000	30	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150/-65	0	1500	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	150/-65	0	500	30	0
BW100EAGL	G	MR121055	R1	CYP15G0101DXB-BBXC	150/-65	0	1000	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	150/-65	0	500	30	0
BW165BUALL	G	MR121059	R1	CY7C1512KV18-250BZXC	150/-65	0	1000	30	0
BW165RJALL	RA	MR122009	R1	CY7C1412KV18-250BZXI	150/-65	0	500	30	0
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	150/-65	0	500	30	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150/-65	0	2000	65	0
BW165BUALL	G	120612	R1	CY7C1512KV18-250BZXC	150/-65	0	1500	70	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150/-65	0	2000	95	0
BW165BUALL	G	120612	R2	CY7C1512KV18-250BZXC	150/-65	0	1500	95	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150/-65	0	2000	95	0
BW165BUALL	G	120612	R3	CY7C1512KV18-250BZXC	150/-65	0	1500	95	0
BW165GAALL	RA	MR113018	R1	CY7C1512KV18-250BZXI	150/-65	0	3000	26	0
BW165RJALL	RA	MR122009	R1	CY7C1412KV18-250BZXI	150/-65	0	1000	28	0
BW100EAGL	G	MR122020	R1	CYP15G0101DXB-BBXC	150/-65	0	1000	30	0



BW100EAGL	G	MR123012	R1	CYP15G0101DXB-BBXC	150/-65	0	1000	30	0
BW100EAGL	G	MR123012	R1	CYP15G0101DXB-BBXC	150/-65	0	500	30	0
BW165RNALL	RA	MR123039	R1	CY7C1312KV18-250BZXC	150/-65	0	500	29	0
BW209GAAL	G	121905	R3	CYF0144V33L-133BGXI	125/-55	0	500	74	0
BW209GAAL	G	121905	R3	CYF0144V33L-133BGXI	125/-55	0	1000	74	0
BW209GAAL	G	123301	R3	CYF0144V33L-133BGXI	125/-55	0	500	74	0
BW165GAALL	RA	123810	R1	CY7C1512KV18-250BZXC	150/-65	0	500	80	0
BW165RNALL	RA	MR123039	R1	CY7C1312KV18-250BZXC	150/-65	0	1000	29	0
BW165RNALL	RA	MR124011	R1	CY7C1312KV18-250BZXI	150/-65	0	500	30	0
BW165RNALL	RA	MR124011	R1	CY7C1312KV18-250BZXI	150/-65	0	1000	30	0
BW100EAGL	G	MR124025	R1	CYP15G0101DXB-BBXI	150/-65	0	500	30	0
BW100EAGL	G	MR124025	R1	CYP15G0101DXB-BBXI	150/-65	0	1000	30	0

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

**50 records**

**Sum**

**3241 0**

**PBGA (1.27)**

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

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

**1 records**

**Sum**

**30 0**

**FLIPCHIP CSP (Pb-Free)**

FN49BATRCD	AU	112211	R3	CY8CTMA443-49FNIES2	125/-55	0	500	80	0
------------	----	--------	----	---------------------	---------	---	-----	----	---



FN49BATRC	AU	112211	R1	CY8CTMA443-49FNIES2	125/-55	0	500	80	0
FN49BATRC	AU	112211	R2	CY8CTMA443-49FNIES2	125/-55	0	500	80	0
FN49BATRC	AU	112211	R3	CY8CTMA443-49FNIES2	125/-55	0	1000	79	0
FN49BATRC	AU	112211	R1	CY8CTMA443-49FNIES2	125/-55	0	1000	80	0
FN49BATRC	AU	112211	R2	CY8CTMA443-49FNIES2	125/-55	0	1000	80	0
FN60AATRC	AU	112212	R1	CY8CTMA443-60FNIES2	125/-55	0	500	80	0
FN60AATRC	AU	112212	R2	CY8CTMA443-60FNIES2	125/-55	0	500	80	0
FN60AATRC	AU	112212	R3	CY8CTMA443-60FNIES2	125/-55	0	500	80	0
FN60AATRC	AU	112212	R3	CY8CTMA443-60FNIES2	125/-55	0	1000	80	0
FN60AATRC	AU	112212	R1	CY8CTMA443-60FNIES2	125/-55	0	1000	80	0
FN49	DT	113102	R1	CY8CTMA340-FNI-09	125/-55	0	1000	88	0
FN30BBTRFP	AU	114003	R1	CY8C20767-24FDXCES	125/-55	0	500	76	0
FN81AGAN	AU	MR114061	R1	CYWB0124ABX-FDXI	125/-55	0	1000	30	0
FN81AGAN	AU	MR114061	R1	CYWB0124ABX-FDXI	125/-55	0	500	30	0
FN49BADRC	DT	120807	R1	CY8CTMA443-49FNIES2	125/-55	0	1000	79	0
FN49BADRC	DT	120807	R2	CY8CTMA443-49FNIES2	125/-55	0	1000	80	0
FN49BADRC	DT	120807	R3	CY8CTMA443-49FNIES2	125/-55	0	1000	79	0
FN60AADRC	DT	120808	R1	CY8CTMA443-60FNIES2	125/-55	0	500	77	0
FN60AADRC	DT	120808	R1	CY8CTMA443-60FNIES2	125/-55	0	1000	76	0
FN60AADRC	DT	120808	R2	CY8CTMA443-60FNIES2	125/-55	0	500	78	0



FN60AADRCD	DT	120808	R2	CY8CTMA443-60FNIES2	125/-55	0	1000	76	0
FN60AADRCD	DT	120808	R3	CY8CTMA443-60FNIES2	125/-55	0	500	79	0
FN60AADRCD	DT	120808	R3	CY8CTMA443-60FNIES2	125/-55	0	1000	79	0
FN49ABAAAL	AU	MR121046	R1	CP7455ATT	125/-55	0	500	29	0
FN49ACAAAL	GQ	MR113072	R1	CY8CTMA340-FNI-09T	125/-55	0	1000	25	0
FN131ATRCD	AU	112109	R2	CYWB0263BB-FNXIES	125/-55	0	1000	81	0
FN49ABAAAL	AU	MR121046	R1	CP7455ATT	125/-55	0	1000	29	0
FN49ABDRCD	DT	MR122049	R1	CG7524AMT	125/-55	0	500	29	0
FN49ABDRCD	DT	MR123050	R1	CG7524AMT	125/-55	0	500	29	0

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

**30 records**

**Sum 2028 0**

**PBGA (Cavity/Heat Sink)**

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

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

**6 records**

**Sum 464 0**



**PBGA (Cavity/Heat Sink, Pb-free)**

BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	150/-65	0	500	30	0
BJ256L2GL	G	MR121007	R1	CYP15G0401DXB-BGXI	150/-65	0	1000	30	0

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

**Sum** **2** **records** **60** **0**

**PDIP**

P2434XAAGB	X	MR122037	R1	CY7C194BN-15PC	150/-65	0	1000	30	0
P2434XAAGB	X	MR122037	R1	CY7C194BN-15PC	150/-65	0	500	30	0

**Summary for Package Family: PDIP**

**Sum** **2** **records** **60** **0**

**PDIP (Pb-Free)**

PZ183DPDGN	RA	MR121012	R1	CP6238BM	150/-65	0	500	30	0
PZ183DPDGN	RA	MR121012	R1	CP6238BM	150/-65	0	1000	30	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	150/-65	0	500	30	0
PZ283ACAGL	X	RR112018	R1	CY7C199CN-15PXC	150/-65	0	1000	7	0
PZ286EAAGN	X	MR121053	R1	CY62256NLL-70PXC	150/-65	0	1000	30	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	150/-65	0	500	30	0
PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	150/-65	0	500	30	0
PZ283ACAGL	X	MR121051	R1	CY7C199CN-15PXC	150/-65	0	1000	28	0
PZ183DPDGN	RA	MR122016	R1	CY7C63723C-PXC	150/-65	0	1000	30	0



PZ283AAAGN	X	MR122047	R1	CY8C27443-24PXI	150/-65	0	1000	30	0
PZ286EAAGN	X	MR123020	R1	CY62256NLL-70PXC	150/-65	0	1000	30	0
PZ286EAAGN	X	MR123020	R1	CY62256NLL-70PXC	150/-65	0	500	30	0
PZ183DPDGN	RA	MR123023	R1	CY7C63723C-PXC	150/-65	0	1000	30	0
PZ183DPDGN	RA	MR123023	R1	CY7C63723C-PXC	150/-65	0	500	30	0
PZ183DPBGN	RA	MR124052	R1	CY7C63813-PXC	150/-65	0	500	28	0
PZ286EAAGN	X	MR124047	R1	CY62256NLL-70PXC	150/-65	0	500	30	0

**Summary for Package Family: PDIP (Pb-Free) 16 records**

**Sum 453 0**

**PLCC (Pb-Free)**

JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	150/-65	0	1000	30	0
JZ52SFGAN	M	MR121054	R1	CY7C131-55JXC	150/-65	0	500	30	0
JZ52SFGAN	M	MR123051	R1	CY7C131-25JXCT	150/-65	0	500	30	0
JZ52SFGAN	M	MR123051	R1	CY7C131-25JXCT	150/-65	0	1000	29	0
JZ52SFGAN	M	MR124008	R1	CY7C146-55JXC	150/-65	0	500	30	0
JZ52SFGAN	M	MR124008	R1	CY7C146-55JXC	150/-65	0	1000	30	0

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

**Sum 179 0**

**PQFP (Pb-free)**

NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	150/-65	0	500	30	0
-----------	---	----------	----	---------------	---------	---	-----	----	---





NZ52DXGAN	G	MR121041	R1	CY7C131-55NXC	150/-65	0	1000	30	0
NZ52DXGAN	G	MR122023	R1	CY7C131-55NXC	150/-65	0	500	28	0
NZ52DXGAN	G	MR122023	R1	CY7C131-55NXC	150/-65	0	1000	28	0
NZ52DXGAN	G	MR123027	R1	CY7C131-55NXC	150/-65	0	500	30	0
NZ52DXGAN	G	MR123027	R1	CY7C131-55NXC	150/-65	0	1000	30	0
NZ52EAALL	M	MR123052	R1	CY7C131E-55NXC	150/-65	0	500	30	0
NZ52EAALL	M	MR123052	R1	CY7C131E-55NXC	150/-65	0	1000	30	0
NZ52EAALL	M	MR124009	R1	CY7C131E-55NXC	150/-65	0	500	29	0

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

**9 records**

**Sum 265 0**

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

LG16AQAAAL	G	114903	R2	CY8C20236A-24LKXI	150/-65	0	500	119	0
LG16AQAAAL	G	114903	R3	CY8C20236A-24LKXI	150/-65	0	500	120	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150/-65	0	1000	110	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150/-65	0	1000	109	0
LG16ABAALL	L	MR112052	R1	CP7194FT	150/-65	0	1000	30	0
LG16AEAAAL	MB	MR113019	R1	CY8C20236A-24LKXIT	150/-65	0	1000	30	0
LG16ABAALL	L	MR113029	R1	CS7412AT	150/-65	0	1000	30	0
LG16AAAAL	MB	RR114002	R1	CY8C20110-LDX2I	150/-65	0	500	100	0
LG16AAAAL	MB	RR114002	R2	CY8C20110-LDX2IT	150/-65	0	500	100	0



LG16AAAAL	MB	RR114002	R3	CY8C20110-LDX2IT	150/-65	0	500	125	0
LG16AAAAL	MB	RR121001	R1	CG7216AM	150/-65	0	500	80	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150/-65	0	1500	100	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150/-65	0	1500	99	0
LG16ABAALL	L	MR114030	R1	CG7471AMT	150/-65	0	500	30	0
LG16ABAALL	L	MR114032	R1	CY8C20236A-24LKXIT	150/-65	0	500	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	150/-65	0	500	30	0
LG16AEAAAL	MB	MR121047	R1	CY8C20236A-24LKXIT	150/-65	0	1000	30	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R1	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	150/-65	0	500	89	0
LG16AQAAAL	G	NR121001	R2	CY8C20236A-24LKXI	150/-65	0	1000	89	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R3	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R4	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R5	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R5	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R6	CY8C20236A-24LKXI	150/-65	0	500	89	0
LG16AQAAAL	G	NR121001	R6	CY8C20236A-24LKXI	150/-65	0	1000	89	0
LG16AQAAAL	G	NR121001	R7	CY8C20236A-24LKXI	150/-65	0	500	90	0



LG16AQAAAL	G	NR121001	R8	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R9	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	150/-65	0	1500	78	0
LG16AQAAAL	G	112603	R1	CY8C20236A-24LKXI	150/-65	0	2000	78	0
LG16AQAAAL	G	114903	R4	CY8C20224-12LKXI	150/-65	0	2000	100	0
LG16AQAAAL	G	114903	R5	CY8C20110-LDX2I	150/-65	0	2000	99	0
LG16AEAAAL	MB	MR114063	R1	CY8C20234-12LKXAT	150/-65	0	500	29	0
LG16AQAAAL	G	MR122031	R1	CY7C64315-16LKXCT	150/-65	0	500	30	0
LG16AQAAAL	G	NR121001	R7	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R8	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R9	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R10	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R10	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R11	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R11	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R12	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R12	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R13	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R13	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R14	CY8C20236A-24LKXI	150/-65	0	500	90	0



LG16AQAAAL	G	NR121001	R14	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16AQAAAL	G	NR121001	R15	CY8C20236A-24LKXI	150/-65	0	500	90	0
LG16AQAAAL	G	NR121001	R15	CY8C20236A-24LKXI	150/-65	0	1000	90	0
LG16ABAALL	L	MR114030	R1	CG7471AMT	150/-65	0	1000	30	0
LG16ABAALL	L	MR114032	R1	CY8C20236A-24LKXIT	150/-65	0	1000	30	0
LG16AEAAAL	MB	MR114063	R1	CY8C20234-12LKXAT	150/-65	0	1000	28	0
LG16AQAAAL	G	MR122031	R1	CY7C64315-16LKXCT	150/-65	0	1000	30	0
LG16AQAAAL	G	MR123013	R1	CG7601AAT	150/-65	0	1000	27	0
LG16AQAAAL	G	MR124044	R1	CY8C20045-24LKXIT	150/-65	0	500	30	0

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

**58 records**

**Sum**

**4467 0**

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

LK32AABAGL	L	MR114033	R1	CG7361AMT	150/-65	0	500	29	0
LK32AABAGL	L	MR114033	R1	CG7361AMT	150/-65	0	1000	28	0

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

**2 records**

**Sum**

**57 0**

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

LY56AGAGL	L	MR114036	R1	CY7C65630-56LFXA	150/-65	0	1000	30	0
LY56DGAGL	L	MR114035	R1	CY8CTMG120-56LFXA	150/-65	0	500	28	0



LY56DGAGL	L	MR114035	R1	CY8CTMG120-56LFXA	150/-65	0	1000	27	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	150/-65	0	1000	29	0
LY56AGAGL	L	MR121030	R1	CY7C65630-56LFXA	150/-65	0	500	30	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	150/-65	0	500	24	0
LY56DGAGL	L	MR121031	R1	CY8CTMG120-56LFXA	150/-65	0	1000	23	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	150/-65	0	500	29	0
LY24BGAGL	L	MR113040	R1	CY8C21323-24LFXIT	150/-65	0	1000	30	0
LY56AGAGL	L	MR122010	R1	CY7C65620-56LFXA	150/-65	0	1000	29	0
LY56AGAGL	L	MR123008	R1	CY7C65630-56LFXAT	150/-65	0	500	30	0
LY56AGAGL	L	MR123008	R1	CY7C65630-56LFXAT	150/-65	0	1000	30	0
LY56DGAGL	L	MR124029	R1	CY8CTMA120-56LFXAT	150/-65	0	500	30	0
LY56DGAGL	L	MR124029	R1	CY8CTMA120-56LFXAT	150/-65	0	1000	29	0

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

**14 records**

**Sum**

**398 0**

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

LT68YAAAAAL	G	113603	R3	CY8C3865LTI-014	150/-65	0	500	80	0
LT40ABAAAAL	G	114904	R1	CYRF6986-40LTXC	150/-65	0	500	120	0
LT40ABAAAAL	G	114904	R2	CYRF6986-40LTXC	150/-65	0	500	126	0
LT40ABAAAAL	G	114904	R3	CYRF6986-40LTXC	150/-65	0	500	125	0
LT48AQAAAAL	G	114905	R1	CY8C27643-24LTXI	150/-65	0	500	120	0



LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150/-65	0	1000	120	0
LT48CQAAAL	G	114905	R2	CYWUSB6934-48LTXC	150/-65	0	500	120	0
LT48DQAAAL	G	114905	R3	CY8C3866LTI-068	150/-65	0	500	120	0
LT56YAAAAL	G	114906	R1	CY7C65630-56LTXC	150/-65	0	1000	108	0
LT68YAAAAL	G	114906	R2	CY8C3866LTI-030	150/-65	0	1000	108	0
LT32BBAAAL	G	114907	R1	CY8C21434-24LTXI	150/-65	0	500	120	0
LT32BBAAAL	G	114907	R2	CY22391LTXC-06	150/-65	0	500	126	0
LT32BBAAAL	G	114907	R3	CY7C63833-LTXC	150/-65	0	500	120	0
LQ48AAAAGL	RA	115106	R1	CY8CTMA443-48LQIES2	150/-65	0	500	80	0
LQ48AAAAGL	RA	115106	R1	CY8CTMA443-48LQIES2	150/-65	0	1000	78	0
LQ48AQAAAL	G	115108	R1	CY8CTMA443-48LQIES2	150/-65	0	500	77	0
LQ48AQAAAL	G	115108	R1	CY8CTMA443-48LQIES2	150/-65	0	1000	77	0
LQ44AAAALN	G	120104	R1	CY8CTMA443-44LQIES2	150/-65	0	500	80	0
LQ44AAAALN	G	120407	R1	CY8CTMA443-44LQIES	150/-65	0	500	77	0
LQ44AAAALN	G	120407	R1	CY8CTMA443-44LQIES	150/-65	0	1000	30	0
LQ44AAAALN	G	120407	R2	CY8CTMA443-44LQIES	150/-65	0	500	62	0
LQ44AAAALN	G	120407	R2	CY8CTMA443-44LQIES	150/-65	0	1000	30	0
LQ44AAAALN	G	120407	R2A	CY8CTMA443-44LQIES	150/-65	0	500	15	0
LQ44AAAALN	G	120407	R2A	CY8CTMA443-44LQIES	150/-65	0	1000	15	0
LQ44AAAALN	G	120407	R2A	CY8CTMA443-44LQIES	150/-65	0	500	15	0



LQ44AAAAALN	G	120407	R3	CY8CTMA443-44LQIES	150/-65	0	500	77	0
LQ44AAAAALN	G	120407	R3	CY8CTMA443-44LQIES	150/-65	0	1000	30	0
LQ32CCAAL	CA	MR114013	R1	CP6745DMT	150/-65	0	1000	30	0
LQ48AAAAAL	RA	MR114016	R1	CY8CTMA340-48LQI-09	150/-65	0	1000	30	0
LQ48AQAAAL	G	MR114025	R1	CY8CTMA340-48LQI-01T	150/-65	0	1000	30	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	150/-65	0	500	25	0
LQ56AAAAAL	RA	NR114002	R1	CY8C24794-24LQXIT	150/-65	0	1000	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	150/-65	0	500	25	0
LQ56AAAAAL	RA	NR114002	R2	CY8C24794-24LQXIT	150/-65	0	1000	25	0
LT48AQAAAL	G	112107	R1	CY8CLED16-48LTXI	150/-65	0	1000	80	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150/-65	0	1500	198	0
LQ48AQAAAL	G	114403	R1	CY8CTMA300E-48LQXI	150/-65	0	2000	198	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150/-65	0	1500	200	0
LQ48AQAAAL	G	114403	R3	CY8CTMA300E-48LQXI	150/-65	0	2000	200	0
LQ44AAAAALN	G	120104	R1	CY8CTMA443-44LQIES2	150/-65	0	1000	80	0
LT32BAABGL	RA	120204	R1	CG7032AA	150/-65	0	1500	97	0
LT32BAABGL	RA	120204	R1	CG7032AA	150/-65	0	2000	97	0
LT32BABCGL	RA	120204	R2	CS7224AA	150/-65	0	1500	97	0
LT32BABCGL	RA	120204	R2	CS7224AA	150/-65	0	2000	97	0
LT32BABCGL	RA	120204	R3	CS7224AA	150/-65	0	1500	97	0



LT32BABCGL	RA	120204	R3	CS7224AA	150/-65	0	2000	97	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150/-65	0	1500	94	0
LQ48AAAAAL	RA	120205	R1	CY8CTMA300E-48LQXI	150/-65	0	2000	94	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150/-65	0	1500	94	0
LQ48AAAAAL	RA	120205	R2	CY8CTMA300E-48LQXI	150/-65	0	2000	94	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150/-65	0	1500	92	0
LQ48AAAAAL	RA	120205	R3	CY8CTMA300E-48LQXI	150/-65	0	2000	92	0
LT68ADAAGL	RA	120206	R1	CY8C3865LTI-014	150/-65	0	1000	99	0
LT68ADAAGL	RA	120206	R1	CY8C3865LTI-014	150/-65	0	1500	84	0
LT68ADAAGL	RA	120206	R2	CY8C3865LTI-014	150/-65	0	1000	99	0
LT68ADAAGL	RA	120206	R2	CY8C3865LTI-014	150/-65	0	1500	99	0
LT68ADAAGL	RA	120206	R3	CY8C3865LTI-014	150/-65	0	1000	99	0
LT68ADAAGL	RA	120206	R3	CY8C3865LTI-014	150/-65	0	1500	99	0
LQ32EPDAGL	RA	120207	R1	CY8CTMG200-32LQXI	150/-65	0	1500	88	0
LQ32EPDAGL	RA	120207	R1	CY8CTMG200-32LQXI	150/-65	0	2000	83	0
LQ32EPDAGL	RA	120207	R2	CY8CTMG200-32LQXI	150/-65	0	1500	88	0
LQ32EPDAGL	RA	120207	R2	CY8CTMG200-32LQXI	150/-65	0	2000	88	0
LQ32EPDAGL	RA	120207	R3	CY8CTMG200-32LQXI	150/-65	0	1500	89	0
LQ32EPDAGL	RA	120207	R3	CY8CTMG200-32LQXI	150/-65	0	2000	89	0
LQ48AEAAAL	RA	121105	R1	CY8CTMA443-48LQI	150/-65	0	500	80	0





LQ48AEAAAL	RA	121105	R1	CY8CTMA443-48LQI	150/-65	0	1000	80	0
LQ48AEAAAL	RA	121105	R2	CY8CTMA443-48LQI	150/-65	0	500	80	0
LQ48AEAAAL	RA	121105	R2	CY8CTMA443-48LQI	150/-65	0	1000	80	0
LQ48AEAAAL	RA	121105	R3	CY8CTMA443-48LQI	150/-65	0	500	80	0
LT32BAAAGL	CA	MR113021	R1	CY8C21434-24LTXIT	150/-65	0	1000	30	0
LT56BDAAGL	AE	MR113050	R1	CG7158DMT	150/-65	0	1000	28	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	150/-65	0	500	29	0
LT56BDAAGL	AE	MR114012	R1	CG7243AMT	150/-65	0	1000	29	0
LT48ABBAAL	MB	MR114014	R1	CP7408AT	150/-65	0	1000	30	0
LT48AQAAAL	G	MR114071	R1	CY8C20636A-24LTXI	150/-65	0	500	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	150/-65	0	1000	30	0
LT32BBAAAL	G	MR121014	R1	CY8C21434-24LTXIT	150/-65	0	500	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	150/-65	0	500	30	0
LT32BAABGL	RA	MR121015	R1	CY8C21434-24LTXI	150/-65	0	1000	30	0
LT56BDAAGL	AE	MR121038	R1	CG7243AMT	150/-65	0	500	30	0
LT32BAABGL	RA	MR122002	R1	CY8C21434-24LTXIT	150/-65	0	500	30	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	150/-65	0	500	30	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	150/-65	0	500	25	0
LQ56AAAAAL	RA	NR114002	R3	CY8C24794-24LQXIT	150/-65	0	1000	25	0
LT40ACAAGL	AE	RR122001	R1	CYRF6936-40LTXC	150/-65	0	50	100	0



LT56BCAAGL	AE	RR122001	R2	CY7C65640A-LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R4	CY7C65630-56LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R5	CY7C65630-56LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R6	CY7C65630-56LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R7	CY7C65630-56LTXC	150/-65	0	50	100	0
LT56BCAAGL	AE	RR122001	R8	CS7275AAT	150/-65	0	50	100	0
LQ24AQAAAL	G	112108	R1	CY7C68003-24LQXI	150/-65	0	2000	77	0
LQ24AQAAAL	G	112108	R1	CY7C68003-24LQXI	150/-65	0	1500	77	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150/-65	0	2000	105	0
LT48AQAAAL	G	114905	R1	CY8C27643-24LTXI	150/-65	0	1500	110	0
LT56YAAAAAL	G	114906	R1	CY7C65630-56LTXC	150/-65	0	2000	98	0
LT56YAAAAAL	G	114906	R1	CY7C65630-56LTXC	150/-65	0	1500	98	0
LT68YAAAAAL	G	114906	R2	CY8C3866LTI-030	150/-65	0	2000	103	0
LT68YAAAAAL	G	114906	R2	CY8C3866LTI-030	150/-65	0	1500	108	0
LQ48AEAAAL	RA	121105	R3	CY8CTMA443-48LQI	150/-65	0	1000	80	0
LQ48AEAAAL	RA	121202	R5	CY8CTMA443-48LQIES3	150/-65	0	1000	80	0
LQ48AEAAAL	RA	121202	R5	CY8CTMA443-48LQIES3	150/-65	0	500	80	0
LQ32QAAAAAL	G	123701	R1	CY8C20436A-24LQXI	150/-65	0	500	97	0
LQ32QAAAAAL	G	123701	R2	CY8C20436A-24LQXI	150/-65	0	500	97	0
LQ32QAAAAAL	G	123701	R3	CY8C20436A-24LQXI	150/-65	0	500	97	0



LQ56BAAAAAL	RA	123801	R1	CY8CTMA463-56LQIES2	150/-65	0	1000	77	0
LQ56BAAAAAL	RA	123801	R1	CY8CTMA463-56LQIES2	150/-65	0	500	77	0
LQ56BAAAAAL	RA	123801	R2	CY8CTMA463-56LQIES2	150/-65	0	1000	77	0
LQ56BAAAAAL	RA	123801	R2	CY8CTMA463-56LQIES2	150/-65	0	500	77	0
LQ56BAAAAAL	RA	123801	R3	CY8CTMA463-56LQIES2	150/-65	0	1000	77	0
LQ56BAAAAAL	RA	123801	R3	CY8CTMA463-56LQIES2	150/-65	0	500	77	0
LT40ACAAGL	AE	AR1130019	R1	CYRF6936-40LTXC	150/-65	0	1000	20	0
LT40ACAAGL	AE	AR1130019	R1	CYRF6936-40LTXC	150/-65	0	500	20	0
LT32BAABGL	RA	AR1142014	R1	CY8C21434-24LTXIT	150/-65	0	1000	20	0
LT32BAABGL	RA	AR1142014	R1	CY8C21434-24LTXIT	150/-65	0	500	20	0
LQ24AAAAAL	RA	AR1223015	R1	CG7400AM	150/-65	0	1000	13	0
LQ24AAAAAL	RA	AR1223015	R1	CG7400AM	150/-65	0	500	13	0
LQ32EPDAGL	RA	AR1225015	R1	CY8CTST242-LQI-01T	150/-65	0	1000	20	0
LQ32EPDAGL	RA	AR1225015	R1	CY8CTST242-LQI-01T	150/-65	0	500	20	0
LQ32EPDAGL	RA	AR1225016	R1	CY8CTST242-LQI-01T	150/-65	0	1000	20	0
LQ32EPDAGL	RA	AR1225016	R1	CY8CTST242-LQI-01T	150/-65	0	500	20	0
LQ48AAAAAL	RA	AR1230010	R1	CG7479AM	150/-65	0	1000	20	0
LQ48AAAAAL	RA	AR1230010	R1	CG7479AM	150/-65	0	500	20	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150/-65	0	2000	27	0
LQ36AAAAAN	MB	MR113020	R1	CY8CTMA300E-36LQXI	150/-65	0	1500	29	0



LQ36AAAAAN	MB	MR114015	R1	CY8CTMA340-LQI-01T	150/-65	0	1000	30	0
LQ36AAAAAN	MB	MR114015	R1	CY8CTMA340-LQI-01T	150/-65	0	500	30	0
LQ36AAAAAL	L	MR114031	R1	CP7340ATT	150/-65	0	1000	30	0
LQ36AAAAAL	L	MR114031	R1	CP7340ATT	150/-65	0	500	30	0
LQ48AQAAAL	G	MR121005	R1	CY8CTMA340-48LQI-01T	150/-65	0	1000	30	0
LQ48AQAAAL	G	MR121005	R1	CY8CTMA340-48LQI-01T	150/-65	0	500	30	0
LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	150/-65	0	500	30	0
LT32BAABGL	RA	MR122002	R1	CY8C21434-24LTXIT	150/-65	0	1000	30	0
LT56BCAAGL	AE	MR122026	R1	CY7C65631-56LTXCT	150/-65	0	1000	29	0
LT56YAAAAAL	G	MR122027	R1	CY7C65640A-LTXC	150/-65	0	1000	28	0
LQ32QAAAAAL	G	MR122028	R1	CY8C20446A-24LQXI	150/-65	0	1000	30	0
LQ32QAAAAAL	G	MR122028	R1	CY8C20446A-24LQXI	150/-65	0	500	30	0
LT56BCAAGL	AE	MR123005	R1	CP7391AT	150/-65	0	1000	30	0
LT56BCAAGL	AE	MR123005	R1	CP7391AT	150/-65	0	500	30	0
LT56BEAAGL	RA	MR123015	R1	CY8C24794-24LTXI	150/-65	0	500	30	0
LT48CQAAAL	G	NR122001	R1	CYWUSB6934-48LTXC	150/-65	0	500	90	0
LT48CQAAAL	G	NR122001	R2	CYWUSB6934-48LTXC	150/-65	0	500	90	0
LT48CQAAAL	G	NR122001	R3	CYWUSB6934-48LTXC	150/-65	0	500	90	0
LQ48AEAAAL	RA	NR122003	R1	CY8CTMA463-48LQI	150/-65	0	1000	25	0
LQ48AEAAAL	RA	NR122003	R1	CY8CTMA463-48LQI	150/-65	0	500	25	0



LQ48AEAAAL	RA	NR122003	R2	CY8CTMA463-48LQI	150/-65	0	1000	25	0
LQ48AEAAAL	RA	NR122003	R2	CY8CTMA463-48LQI	150/-65	0	500	25	0
LQ48AEAAAL	RA	NR122003	R3	CY8CTMA463-48LQI	150/-65	0	1000	25	0
LQ48AEAAAL	RA	NR122003	R3	CY8CTMA463-48LQI	150/-65	0	500	25	0
LQ48ADAAAL	G	NR122005	R1	CY8CTMA463-48LQI	150/-65	0	1000	23	0
LQ48ADAAAL	G	NR122005	R1	CY8CTMA463-48LQI	150/-65	0	500	23	0
LQ48ADAAAL	G	NR122005	R2	CY8CTMA463-48LQI	150/-65	0	1000	25	0
LQ48ADAAAL	G	NR122005	R2	CY8CTMA463-48LQI	150/-65	0	500	25	0
LQ48ADAAAL	G	NR122005	R3	CY8CTMA463-48LQI	150/-65	0	1000	24	0
LQ48ADAAAL	G	NR122005	R3	CY8CTMA463-48LQI	150/-65	0	500	24	0
LQ48AAAAAL	RA	120907	R1	CY8CTMA340-48LQI-01	150/-65	0	1000	77	0
LQ32EPDAGL	RA	120907	R2	CY8C20446A-24LQXIT	150/-65	0	1000	77	0
LQ48AQAAAL	G	121902	R1	CY8CTMA500-48LQIES	150/-65	0	500	90	0
LQ48AQAAAL	G	121902	R1	CY8CTMA500-48LQIES	150/-65	0	1000	90	0
LQ48AQAAAL	G	121902	R2	CY8CTMA500-48LQIES	150/-65	0	500	86	0
LQ48AQAAAL	G	121902	R2	CY8CTMA500-48LQIES	150/-65	0	1000	86	0
LQ48AQAAAL	G	121902	R3	CY8CTMA500-48LQIES	150/-65	0	500	85	0
LQ48AQAAAL	G	121902	R3	CY8CTMA500-48LQIES	150/-65	0	1000	84	0
LT40BQAAAL	G	122503	R1	CYRF69103-40LTXC	150/-65	0	500	79	0
LQ32EPDAGL	RA	AR1243005	R1	CY8CTST242-LQI-01T	150/-65	0	100	2	0



LQ32EPDAGL	RA	AR1243005	R1	CY8CTST242-LQI-01T	150/-65	0	500	2	0
LQ32EPDAGL	RA	AR1243005	R1	CY8CTST242-LQI-01T	150/-65	0	1000	2	0
LQ32EPDAGL	RA	AR1244005	R1	CY8CTST242-LQI-01T	150/-65	0	100	7	0
LQ32EPDAGL	RA	AR1244005	R1	CY8CTST242-LQI-01T	150/-65	0	500	7	0
LQ32EPDAGL	RA	AR1244005	R1	CY8CTST242-LQI-01T	150/-65	0	1000	7	0
LQ24AAAAAL	RA	AR1246007	R1	CS7223AA	150/-65	0	100	10	0
LQ24AAAAAL	RA	AR1246007	R1	CS7223AA	150/-65	0	100	9	0
LQ36ABAAAL	RA	AR1249007	R1	CG7566AFT	150/-65	0	100	5	0
LQ36ABAAAL	RA	AR1249007	R1	CG7566AFT	150/-65	0	100	5	0
LQ48AEAAAL	RA	AR1249014	R1	CY8CTMA400-48LQI	150/-65	0	100	4	0
LQ32EPDAGL	RA	MR121013	R1	CY8CTMG240-LQI-01	150/-65	0	1000	30	0
LT48DQAAAL	G	MR121056	R1	CY8C28623-24LTXIT	150/-65	0	500	30	0
LT88ABAAAL	L	MR122033	R1	CY8CTMA616LTI-13T	150/-65	0	1000	28	0
LT88ABAAAL	L	MR123003	R1	CY8CTMA616LTI-13	150/-65	0	1000	23	0
LT40ABAAAL	G	MR123011	R1	CYRF7936-40LTXC	150/-65	0	500	30	0
LQ48AAAAAL	RA	MR123014	R1	CY8CTMA340-48LQI-01	150/-65	0	500	30	0
LQ48AAAAAL	RA	MR123014	R1	CY8CTMA340-48LQI-01	150/-65	0	1000	18	0
LQ48AAAAAL	RA	MR123014	R1	CY8CTMA340-48LQI-01	150/-65	0	1000	12	0
LQ32QAAAAL	G	MR123042	R1	CY24292LFXCT	150/-65	0	500	29	0
LQ48AQAAAAL	G	MR124012	R1	CY8CTMA340-48LQI-01	150/-65	0	500	30	0



LQ48AQAAAL	G	MR124012	R1-Split 1	CY8CTMA340-48LQI-01	150/-65	0	1000	23	0
LQ48AQAAAL	G	MR124012	R1-Split 2	CY8CTMA340-48LQI-01	150/-65	0	1000	7	0
LT56BEAAGL	RA	MR124014	R1	CS6651DAT	150/-65	0	500	30	0
LT56BEAAGL	RA	MR124014	R1	CS6651DAT	150/-65	0	1000	30	0
LQ56BAAAAL	RA	MR124016	R1	CY8CTMA463-56LQI	150/-65	0	500	29	0
LQ56BAAAAL	RA	MR124016	R1	CY8CTMA463-56LQI	150/-65	0	1000	29	0
LQ56BAAAAL	RA	NR124001	R1	CY8CTMA463-56LQIT	150/-65	0	500	25	0
LQ56BAAAAL	RA	NR124001	R2	CY8CTMA463-56LQIT	150/-65	0	500	25	0
LQ56BAAAAL	RA	NR124001	R3	CY8CTMA463-56LQIES2	150/-65	0	500	24	0

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

**194 records**

**Sum**

**11542 0**

**QFN (0.8mm Saw Type, Pb-Free)**

LH08AAALL	MB	MR123046	R1	CY14B101Q2-LHXI	150/-65	0	500	30	0
-----------	----	----------	----	-----------------	---------	---	-----	----	---

**Summary for Package Family: QFN (0.8mm Saw Type, Pb-Free)**

**1 records**

**Sum**

**30 0**

**QSOP (Pb-Free)**

SQ2414ACGN	JT	AR1135050	R1	CY7C63823-QXC	150/-65	0	500	20	0
SQ2414ACGN	JT	AR1135050	R1	CY7C63823-QXC	150/-65	0	1000	20	0
SQ2414ACGN	JT	AR1136066	R1	CY7C63823-QXC	150/-65	0	500	19	0
SQ2414ACGN	JT	AR1136066	R1	CY7C63823-QXC	150/-65	0	1000	19	0



SQ2414ACGN	JT	AR1136071	R1	CY7C63823-QXC	150/-65	0	500	20	0
SQ2414ACGN	JT	AR1136071	R1	CY7C63823-QXC	150/-65	0	1000	20	0
SQ2414ACGN	JT	AR1136072	R1	CY7C63823-QXC	150/-65	0	500	20	0
SQ2414ACGN	JT	AR1136072	R1	CY7C63823-QXC	150/-65	0	1000	20	0
SQ2414ACGN	JT	AR1136074	R1	CY7C63823-QXC	150/-65	0	500	20	0
SQ2414ACGN	JT	AR1136074	R1	CY7C63823-QXC	150/-65	0	1000	20	0
SQ2414ACGN	JT	AR1137039	R1	CY7C63823-QXC	150/-65	0	500	20	0
SQ2414ACGN	JT	AR1137039	R1	CY7C63823-QXC	150/-65	0	1000	20	0
SQ2414ACGN	JT	AR1137040	R1	CY7C63823-QXC	150/-65	0	500	20	0
SQ2414ACGN	JT	AR1137040	R1	CY7C63823-QXC	150/-65	0	1000	20	0
SQ2414ACGN	JT	AR1137041	R1	CY7C63823-QXC	150/-65	0	500	20	0
SQ2414ACGN	JT	AR1137041	R1	CY7C63823-QXC	150/-65	0	1000	20	0
SQ2414ACGN	JT	AR1141026	R1	CY7C63823-QXC	150/-65	0	500	20	0
SQ2414ACGN	JT	AR1141026	R1	CY7C63823-QXC	150/-65	0	1000	20	0
SQ2414ACGN	JT	MR114029	R1	CY7C63823-QXC	150/-65	0	1000	23	0
SQ2414ACGN	JT	MR121036	R1	CY7C63823-QXC	150/-65	0	500	30	0
SQ2414ACGN	JT	MR123030	R1	CY7C63823-QXC	150/-65	0	500	28	0

**Summary for Package Family: QSOP (Pb-Free)**

**21 records**

**Sum**

**439 0**

**SNC (Pb-Free)**





SY2831BCLN	JT	AR1139019	R1	CG6715AMT	150/-65	0	500	20	0
SY2831BCLN	JT	AR1139019	R1	CG6715AMT	150/-65	0	1000	20	0
SY2831BHN	JT	MR123036	R1	CG7261AT	150/-65	0	500	30	0
SY2831BHN	JT	MR123036	R1	CG7261AT	150/-65	0	1000	29	0

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

**Sum 99 0**

**SOIC**

S1615KDAGN	RA	MR123017	R1	CY2309SC-1H	150/-65	0	1000	30	0
S1615KDAGN	RA	MR123017	R1	CY2309SC-1H	150/-65	0	500	30	0

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

**Sum 60 0**

**SOIC (Pb Free)**

SZ324513AN	JT	115206	R1	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	115206	R1	CY62128BNLL-70SXE	150/-65	0	1000	80	0
SZ324513AN	JT	115206	R2	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	115206	R2	CY62128BNLL-70SXE	150/-65	0	1000	80	0
SZ324513AN	JT	115206	R3	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	115206	R3	CY62128BNLL-70SXE	150/-65	0	1000	80	0
SZ324513AN	JT	120110	R1	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ324513AN	JT	120110	R2	CY62128BNLL-70SXE	150/-65	0	500	80	0



SZ324513AN	JT	120110	R3	CY62128BNLL-70SXE	150/-65	0	500	80	0
SZ815CGAAS	M	MR114037	R1	CY2305CSXA-1H	150/-65	0	1000	27	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150/-65	0	500	30	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	150/-65	0	500	77	0
SZ1615FAL	T	121409	R1	CY8C20237-24SXI	150/-65	0	1000	77	0
SZ1615FAL	T	121409	R2	CY8C20237-24SXI	150/-65	0	500	77	0
SZ1615FAL	T	121409	R2	CY8C20237-24SXI	150/-65	0	1000	77	0
SZ1615FAL	T	121409	R3	CY8C20237-24SXI	150/-65	0	1000	77	0
SZ1615FAL	T	121409	R3	CY8C20237-24SXI	150/-65	0	500	77	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	150/-65	0	500	96	0
SZ1615FAL	T	122206	R1	CY8C20237-24SXI	150/-65	0	1000	86	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	150/-65	0	1000	86	0
SZ1615FAL	T	122206	R2	CY8C20237-24SXI	150/-65	0	500	96	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	150/-65	0	1000	86	0
SZ1615FAL	T	122206	R3	CY8C20237-24SXI	150/-65	0	500	96	0
SZ32458CLN	JT	MR114002	R1	CY62128ELL-45SXIT	150/-65	0	1000	30	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	150/-65	0	500	26	0
SZ815CGAAS	M	MR121028	R1	CY2305CSXA-1HT	150/-65	0	1000	26	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150/-65	0	1000	30	0
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150/-65	0	1500	30	0



SZ1615DGN	M	MR121048	R1	CY8C21234-24SXI	150/-65	0	500	30	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	150/-65	0	500	22	0
SZ324513AN	JT	MR121058	R1	CY62128BNLL-70SXA	150/-65	0	1000	22	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	150/-65	0	500	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	150/-65	0	500	30	0
SZ815CGAAS	M	MR122005	R1	CY2305CSXA-1HT	150/-65	0	1000	29	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	150/-65	0	1000	30	0
SZ815PAEGN	RA	MR122018	R1	CY2305SXI-1HT	150/-65	0	500	30	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	150/-65	0	500	30	0
SZ815YAALN	RA	122802	R1A	CY14E101Q2A-SXI	150/-65	0	500	76	0
SZ1615DGN	M	AR1121027	R1	CG7192AM	150/-65	0	1000	20	0
SZ183CPEAN	RA	AR1129009	R1	CY7C63723C-SXC	150/-65	0	500	18	0
SZ0815TAGN	T	AR1139050	R1	CY25422FSXI	150/-65	0	500	20	0
SZ0815TAGN	T	AR1139050	R1	CY25422FSXI	150/-65	0	1000	20	0
SZ815CGAN	M	AR1143066	R1	CY8C24123A-24SXI	150/-65	0	500	20	0
SZ815CGAN	M	AR1143066	R1	CY8C24123A-24SXI	150/-65	0	1000	20	0
SZ815PAFGN	RA	AR1144010	R1	CY2305CSXC-1HT	150/-65	0	500	19	0
SZ815PAFGN	RA	AR1144010	R1	CY2305CSXC-1HT	150/-65	0	1000	19	0
SZ815CGAN	M	AR1147062	R1	CY25562SXCT	150/-65	0	500	20	0
SZ815CGAN	M	AR1147062	R1	CY25562SXCT	150/-65	0	1000	20	0



SZ183CPEAN	RA	AR1149008	R1	CY7C63723C-SXC	150/-65	0	500	20	0		
SZ183CPBAN	RA	AR1151008	R1	CY7C63813-SXC	150/-65	0	500	20	0		
SZ183CPEAN	RA	AR1152008	R1	CY7C63723C-SXC	150/-65	0	500	20	0		
SZ815PADGN	RA	AR1202010	R1	CY2305CSXC-1T	150/-65	0	500	17	0		
SZ815PADGN	RA	AR1202010	R1	CY2305CSXC-1T	150/-65	0	1000	17	0		
SZ183CPBAN	RA	AR1203008	R1	CY7C63813-SXC	150/-65	0	500	20	7	AR1203008-1T1	Cut Wedge
SZ183CPBAN	RA	AR1205008	R1	CY7C63813-SXC	150/-65	0	500	20	0		
SZ183CPBAN	RA	AR1205008	R1	CY7C63813-SXC	150/-65	0	1000	20	0		
SZ183CPEAN	RA	AR1206008	R1	CY7C63723C-SXC	150/-65	0	500	17	0		
SZ815PAFGN	RA	AR1206010	R1	CY2305CSXC-1HT	150/-65	0	500	20	0		
SZ815PAFGN	RA	AR1206010	R1	CY2305CSXC-1HT	150/-65	0	1000	20	0		
SZ183CPBAN	RA	AR1213009	R1	CY7C63813-SXC	150/-65	0	500	20	0		
SZ815PAFGN	RA	AR1213010	R1	CY2305CSXC-1HT	150/-65	0	500	20	0		
SZ815PAFGN	RA	AR1213010	R1	CY2305CSXC-1HT	150/-65	0	1000	20	0		
SZ183CPEAN	RA	AR1216008	R1	CY7C63723C-SXC	150/-65	0	500	20	0		
SZ183CPEAN	RA	AR1217008	R1	CY7C63723C-SXC	150/-65	0	500	20	0		
SZ183CPEAN	RA	AR1221009	R1	CY7C63723C-SXC	150/-65	0	500	20	8	AR1221009-1T1	Cut Wedge
SZ183CPEAN	RA	AR1222008	R1	CY7C63723C-SXC	150/-65	0	500	20	14	AR1222008-1T1	Cut Wedge
SZ183CPEAN	RA	AR1224009	R1	CY7C63723C-SXC	150/-65	0	500	20	7	AR1224009-1T1	Cut Wedge
SZ183CPEAN	RA	AR1226008	R1	CY7C63723C-SXC	150/-65	0	500	20	5	AR1226008-1T1	Cut Wedge



SZ183CPEAN	RA	AR1226009	R1	CY7C63723C-SXC	150/-65	0	500	20	8	AR1226009-1T1	Cut Wedge
SZ283ACGAS	M	AR1226034	R1	STK11C88-NF25I	150/-65	0	500	20	0		
SZ283ACGAS	M	AR1226034	R1	STK11C88-NF25I	150/-65	0	1000	20	0		
SZ183CPBAN	RA	AR1227003	R1	CY7C63813-SXC	150/-65	0	500	18	6	AR1227003-1T1	Cut Wedge
SZ183CPEAN	RA	AR1229003	R1	CY7C63723C-SXC	150/-65	0	500	20	6	AR1229003-1T1	Cut Wedge
SZ183CPEAN	RA	AR1230003	R1	CY7C63723C-SXC	150/-65	0	500	17	9	AR1230003-1T1	Cut Wedge
SZ815PAFGN	RA	AR1230004	R1	CY2305CSXC-1HT	150/-65	0	500	17	0		
SZ815PAFGN	RA	AR1230004	R1	CY2305CSXC-1HT	150/-65	0	1000	17	0		
SZ323AEGAS	M	AR1230037	R1	CY14B256LA-SZ25XIT	150/-65	0	500	20	0		
SZ323AEGAS	M	AR1230037	R1	CY14B256LA-SZ25XIT	150/-65	0	1000	20	0		
SZ815PADGN	RA	AR1234004	R1	CY23EP05SXC-1HT	150/-65	0	500	15	0		
SZ815PADGN	RA	AR1234004	R1	CY23EP05SXC-1HT	150/-65	0	1000	15	0		
SZ24315EGN	RA	MR114020	R1	CY7C63743C-SXCT	150/-65	0	1000	30	0		
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	150/-65	0	500	30	0		
SZ1615BKGN	RA	MR121006	R1	CY8C21234-24SXI	150/-65	0	1000	30	0		
SZ32451BLN	JT	MR121010	R1	CY7C53120E2-10SXI	150/-65	0	500	30	0		
SZ24315DGN	RA	MR121011	R1	CY7C63823-SXC	150/-65	0	500	30	0		
SZ24315DGN	RA	MR121011	R1	CY7C63823-SXC	150/-65	0	1000	30	0		
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150/-65	0	2000	30	0		
SZ0815TAGN	T	MR121045	R1	CY25422FSXI	150/-65	0	3000	30	0		



SZ1615DGN	M	MR121048	R1	CY8C21234-24SXI	150/-65	0	1000	30	0
SZ1615BKGN	RA	MR122001	R1	CY8C21234-24SXI	150/-65	0	1000	30	0
SZ324513AN	JT	MR122012	R1	CY62128BNLL-70SXET	150/-65	0	1000	26	0
SZ32451DLL	JT	MR122039	R1	CY62138FV30LL-45SXI	150/-65	0	1000	30	0
SZ2035BAAL	JT	MR122048	R1	CY8C27243-24SXIT	150/-65	0	500	30	0
SZ2035BAAL	JT	MR122048	R1	CY8C27243-24SXIT	150/-65	0	1000	30	0
SZ815CGAAS	M	MR123007	R1	CY2305CSXA-1HT	150/-65	0	500	30	0
SZ815CGAAS	M	MR123007	R1	CY2305CSXA-1HT	150/-65	0	1000	28	0
SZ183CPBAN	RA	MR123024	R1	CY7C63813-SXC	150/-65	0	500	30	0
SZ815YAALN	RA	122802	R1A	CY14E101Q2A-SXI	150/-65	0	1000	76	0
SZ815DAGN	M	AR1234030	R1	CY2300SXCT	150/-65	0	500	19	0
SZ815DAGN	M	AR1234030	R1	CY2300SXCT	150/-65	0	1000	19	0
SZ323AEGAS	M	MR114024	R1	CY14B101LA-SZ45XIT	150/-65	0	500	30	0
SZ32451BLN	JT	MR121010	R1	CY7C53120E2-10SXI	150/-65	0	1000	22	0
SZ323AEGAS	M	MR121044	R1	CY14E256LA-SZ25XI	150/-65	0	500	29	0
SZ1615FAL	T	MR122044	R1	CY8C20180-SX2I	150/-65	0	500	30	0
SZ32451DLL	JT	MR123019	R1	CY62148ELL-55SXI	150/-65	0	500	30	0
SZ163DAALL	M	MR123047	R1	CY14B101P-SFXIT	150/-65	0	500	30	0
SZ1615FAL	T	MR123049	R1	CY8C20160-SX2IT	150/-65	0	500	30	0
SZ815CGAAS	M	MR124031	R1	CY2305CSXA-1HT	150/-65	0	500	19	0



SZ815CGAAS	M	MR124031	R1	CY2305CSXA-1HT	150/-65	0	1000	19	0
SZ324513AN	JT	MR124038	R1	CY62128BNLL-70SXAT	150/-65	0	500	30	0
SZ323AEGAS	M	MR124089	R1	CY14B256LA-SZ45XIT	150/-65	0	500	77	0

**Summary for Package Family: SOIC (Pb Free) 111 records**

**Sum 4026 70**

**SOJ**

VZ43GAAAGN	X	MR113065	R1	CY7C197BN-15VC	150/-65	0	1000	30	0
VZ43GAAAGN	X	MR113065	R1	CY7C197BN-15VC	150/-65	0	500	30	0

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

**Sum 60 0**

**SOJ (Pb-Free)**

VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	150/-65	0	500	30	0
VZ32420DLL	JT	NR113003	R1	CY7C109D-10VXI	150/-65	0	1000	25	0
VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	150/-65	0	500	25	0
VZ32421CLL	JT	NR113003	R2	CY7C1046DV33-10VXI	150/-65	0	1000	25	0
VZ32314CLL	JT	MR114044	R1	CY7C1018DV33-10VXIT	150/-65	0	1000	30	0
VZ32420DLL	JT	MR121023	R1	CY7C1019D-10VXI	150/-65	0	1000	30	0
VZ28311KLL	R	MR113064	R1	CY7C1399BN-15VXAT	150/-65	0	1000	29	0
VZ32314CLL	JT	MR121024	R1	CY7C1009D-10VXI	150/-65	0	500	30	0
VZ444ADCLN	JT	MR122038	R1	CY7C1041D-10VXIT	150/-65	0	500	30	0



VZ444ADCLN	JT	MR122038	R1	CY7C1041D-10VXIT	150/-65	0	1000	30	0
VZ28313CLN	JT	MR122050	R1	CY7C1399BN-12VXI	150/-65	0	500	30	0
VZ32314CLL	JT	MR123033	R1	CY7C1018DV33-10VXIT	150/-65	0	500	30	0
VZ32314CLL	JT	MR123033	R1	CY7C1018DV33-10VXIT	150/-65	0	1000	30	0
VZ2847AAAR	OP	MR114074	R1	CY7C107D-10VXI	150/-65	0	500	30	0
VZ2847AAAR	OP	MR114074	R1	CY7C107D-10VXI	150/-65	0	1000	30	0
VZ28313CLN	JT	MR122050	R1	CY7C1399BN-12VXI	150/-65	0	1000	28	0
VZ444ACCLN	JT	MR124002	R1	CY7C1021D-10VXIT	150/-65	0	500	30	0
VZ444ACCLN	JT	MR124002	R1	CY7C1021D-10VXIT	150/-65	0	1000	30	0

**Summary for Package Family: SOJ (Pb-Free)**

**18 records**

**Sum**

**522 0**

**SSOP (Pb-Free)**

SP2822BGL	M	MR113037	R1	CY8C21534-24PVXA	150/-65	0	1000	30	0
SP2822BGL	M	MR114003	R1	CP7407ATT	150/-65	0	1000	30	0
SP483MBBGN	RA	114601	R7	CY8C29666-24PVXIT	150/-65	0	1000	77	0
SP483MBBGN	RA	114601	R8	CY8C29666-24PVXIT	150/-65	0	1000	77	0
SP483MBBGN	RA	MR114067	R1	CY8C3246PVI-147	150/-65	0	500	30	0
SP483EBCAL	JT	MR114073	R1	CY8C29666-24PVXIT	150/-65	0	500	30	0
SP483EBCAL	JT	MR114073	R1	CY8C29666-24PVXIT	150/-65	0	1000	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150/-65	0	500	30	0





SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150/-65	0	1000	30	0
SP563DBC GN	JT	MR121016	R1	CY7C68013A-56PVXC	150/-65	0	500	30	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	150/-65	0	500	22	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	150/-65	0	500	8	0
SP2822BGL	M	MR121029	R1	CY8C21534-24PVXAT	150/-65	0	1000	29	0
SP282ABBGN	RA	MR121043	R1	CY8C27443-24PVXIT	150/-65	0	500	30	0
SP282ABBGN	RA	MR121043	R1	CY8C27443-24PVXIT	150/-65	0	1000	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150/-65	0	500	30	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150/-65	0	1000	27	0
SP2824HAN	T	MR121052	R1	CY8C24533-24PVXI	150/-65	0	1000	2	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	150/-65	0	500	29	0
SP2024CAGL	M	MR121062	R1	CY8C21334-24PVXAT	150/-65	0	1000	28	0
SP282ABBGN	RA	MR122004	R1	CY8C27443-24PVXIT	150/-65	0	500	30	0
SP282ABBGN	RA	MR122004	R1	CY8C27443-24PVXIT	150/-65	0	1000	30	0
SP202AACGN	RA	AR1105013	R1	CY8C21334-24PVXI	150/-65	0	1000	16	0
SP2822BGL	M	AR1130031	R1	CY8C21534-24PVXAT	150/-65	0	500	20	0
SP2822BGL	M	AR1130031	R1	CY8C21534-24PVXAT	150/-65	0	1000	20	0
SP2822BGL	M	AR1130032	R1	CY8C21534-24PVXA	150/-65	0	500	20	0
SP2822BGL	M	AR1130032	R1	CY8C21534-24PVXA	150/-65	0	1000	20	0
SP282ABBGN	RA	AR1141013	R1	CY7C64215-28PVXC	150/-65	0	500	17	0



SP282ABBGN	RA	AR1141013	R1	CY7C64215-28PVXC	150/-65	0	1000	17	0
SP2822BGL	M	AR1143060	R1	CY8C21534-24PVXAT	150/-65	0	500	18	0
SP2822BGL	M	AR1143060	R1	CY8C21534-24PVXAT	150/-65	0	1000	18	0
SP2822BGL	M	AR1143061	R1	CP6801ATT	150/-65	0	500	20	0
SP2822BGL	M	AR1143061	R1	CP6801ATT	150/-65	0	1000	20	0
SP2023GAL	T	AR1143063	R1	CY8C24223A-24PVXI	150/-65	0	500	20	0
SP2023GAL	T	AR1143063	R1	CY8C24223A-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1144019	R1	CY8C29666-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1144019	R1	CY8C29666-24PVXIT	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1145019	R1	CY8C29666-24PVXIT	150/-65	0	500	20	0
SP483EBCAL	JT	AR1145019	R1	CY8C29666-24PVXIT	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1146019	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1146019	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1201019	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1201019	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1202021	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1202021	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1203019	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483EBCAL	JT	AR1203019	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP282ABAGN	RA	AR1206013	R1	CY8C27443-24PVXI	150/-65	0	500	17	0



SP282ABAGN	RA	AR1206013	R1	CY8C27443-24PVXI	150/-65	0	1000	17	0
SP483MBBGN	RA	AR1218008	R1	CY8C29666-24PVXI	150/-65	0	500	20	0
SP483MBBGN	RA	AR1218008	R1	CY8C29666-24PVXI	150/-65	0	1000	20	0
SP282ABBGN	RA	AR1218013	R1	CY8C21534-24PVXI	150/-65	0	500	20	0
SP282ABBGN	RA	AR1218013	R1	CY8C21534-24PVXI	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1221023	R1	CY8C27643-24PVXIT	150/-65	0	500	20	0
SP202AACGN	RA	AR1222013	R1	CY8C21334-24PVXIT	150/-65	0	500	20	0
SP202AACGN	RA	AR1222013	R1	CY8C21334-24PVXIT	150/-65	0	1000	20	0
SP2822BGL	M	AR1226028	R1	CP7407ATT	150/-65	0	500	20	0
SP2822BGL	M	AR1226028	R1	CP7407ATT	150/-65	0	1000	20	0
SP202AACGN	RA	AR1227009	R1	CY8C24223A-24PVXI	150/-65	0	500	19	0
SP202AACGN	RA	AR1227009	R1	CY8C24223A-24PVXI	150/-65	0	1000	19	0
SP202AABGN	RA	AR1228009	R1	CY8C24223A-24PVXIT	150/-65	0	500	19	0
SP202AABGN	RA	AR1228009	R1	CY8C24223A-24PVXIT	150/-65	0	1000	19	0
SP483MBBGN	RA	AR1229002	R1	CY8C29666-24PVXIT	150/-65	0	500	20	0
SP282ABBGN	RA	AR1232009	R1	CY7C64215-28PVXC	150/-65	0	500	20	0
SP282ABBGN	RA	AR1232009	R1	CY7C64215-28PVXC	150/-65	0	1000	20	0
SP483EBCAL	JT	AR1232017	R1	CY8C27643-24PVXI	150/-65	0	500	19	0
SP483EBCAL	JT	AR1232017	R1	CY8C27643-24PVXI	150/-65	0	1000	19	0
SP282ABBGN	RA	AR1234009	R1	CY8C29466-24PVXI	150/-65	0	500	17	0



SP282ABBGN	RA	AR1234009	R1	CY8C29466-24PVXI	150/-65	0	1000	17	0
SP483MBBGN	RA	MR114067	R1	CY8C3246PVI-147	150/-65	0	1000	28	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150/-65	0	1500	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150/-65	0	2000	30	0
SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150/-65	0	2500	30	0
SP563DBCNG	JT	MR121016	R1	CY7C68013A-56PVXC	150/-65	0	1000	30	0
SP483FBKGN	RA	MR121019	R1	CY8C20536A-24PVXIT	150/-65	0	500	30	0
SP483FBKGN	RA	MR122003	R1	CY8C20536A-24PVXIT	150/-65	0	500	30	0
SP2822BGL	M	MR122006	R1	CY8C21534-12PVXET	150/-65	0	1000	24	0
SP483FBKGN	RA	MR123016	R1	CY8C20546A-24PVXIT	150/-65	0	500	30	0
SP483EBCAL	JT	AR1221023	R1	CY8C27643-24PVXIT	150/-65	0	1000	20	0
SP483MBBGN	RA	AR1229002	R1	CY8C29666-24PVXIT	150/-65	0	1000	20	0
SP2822BGL	M	AR1234034	R1	CY8C21512-24PVXAT	150/-65	0	500	20	0
SP2822BGL	M	AR1234034	R1	CY8C21512-24PVXAT	150/-65	0	1000	20	0
SP282ABBGN	RA	AR1238009	R1	CY7C64215-28PVXC	150/-65	0	500	19	0
SP282ABBGN	RA	AR1238009	R1	CY7C64215-28PVXC	150/-65	0	1000	19	0
SP2822BGL	M	AR1239020	R1	CY8C21534-12PVXET	150/-65	0	500	18	0
SP2822BGL	M	AR1239020	R1	CY8C21534-12PVXET	150/-65	0	1000	18	0
SP282ABAGN	RA	AR1243009	R1	CY8C20524-12PVXI	150/-65	0	500	19	0
SP282ABAGN	RA	AR1243009	R1	CY8C20524-12PVXI	150/-65	0	1000	19	0



SP28213GL	T	MR114080	R1	CY8C29466-24PVXI	150/-65	0	3000	30	0
SP483FBKGN	RA	MR123016	R1	CY8C20546A-24PVXIT	150/-65	0	1000	30	0
SP28214GL	T	MR123055	R1	CY8C9520A-24PVXI	150/-65	0	500	30	0
SP28214GL	T	MR123055	R1	CY8C9520A-24PVXI	150/-65	0	1000	30	0
SP483FBKGN	RA	MR124020	R1	CY8C20566A-24PVXIT	150/-65	0	1000	24	0
SP28214GL	T	MR124035	R1	CY8C24423A-24PVXI	150/-65	0	500	30	0

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

**94 records**

**Sum**

**2225 0**

**TQFP (Pb-Free)**

AZ32GXGAN	G	MR112054	R1	CY29940AXCT	150/-65	0	1000	30	0
AZ32GXGAN	G	MR113046	R1	CY29940AXIT	150/-65	0	1000	30	0
AZ32GXGAN	G	MR114034	R1	CY29942AXCT	150/-65	0	500	30	0
AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	150/-65	0	500	30	0
AZ100RBCLN	JT	MR114041	R1	CY7C1370D-167AXI	150/-65	0	1000	30	0
AZ100RJBLN	RA	MR114059	R1	CY7C68014A-100AXC	150/-65	0	1000	27	0
AZ144AAAGR	Q	MR114081	R1	CY7C057V-15AXI	150/-65	0	500	29	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	150/-65	0	500	30	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	150/-65	0	500	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	150/-65	0	500	30	0
AZ100SFGAL	JT	RR114011	R1	CS7510AM	150/-65	0	1000	78	0



AZ100SFDAL	R	101101	R4	CY8C3866AXI-040ES3	150/-65	0	1000	79	0
AZ100SFDAL	R	101101	R5	CY8C3866AXI-040ES3	150/-65	0	1000	77	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150/-65	0	1500	30	0
AZ144AAAGR	Q	MR114081	R1	CY7C057V-15AXI	150/-65	0	1000	29	0
AZ100RYCLN	JT	MR121021	R1	CY7C1360C-166AXI	150/-65	0	1000	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	150/-65	0	500	30	0
AZ100RVLN	JT	MR121033	R1	CY7C68320C-100AXA	150/-65	0	1000	29	0
AZ100KGAN	G	MR121040	R1	CY7C024AV-25AXCT	150/-65	0	1000	30	0
AZ100RJBLN	R	MR121042	R1	CY7C1350G-200AXCT	150/-65	0	1000	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	150/-65	0	500	30	0
AZ100RVLN	JT	MR122007	R1	CY7C68320C-100AXA	150/-65	0	1000	28	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	150/-65	0	500	30	0
AZ44SFBHLN	JT	MR122008	R1	CY7C53120E4-40AXI	150/-65	0	1000	30	0
AZ32BXGAN	Q	MR122024	R1	CY7C4201V-15AXC	150/-65	0	500	30	0
AZ100SFBAL	RA	101101	R1	CY8C3866AXI-040ES3	150/-65	0	1000	75	0
AZ100SFKAL	R	120402	R2	CY8C3866AXI-040ES4	150/-65	0	1000	79	0
AZ100SFKAL	R	120402	R3	CY8C3866AXI-040ES4	150/-65	0	1000	79	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150/-65	0	2000	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150/-65	0	2500	30	0
AZ100SFGAL	JT	MR114068	R1	CY8C3245AXI-158	150/-65	0	500	30	0



AZ32BXGAN	Q	MR122024	R1	CY7C4201V-15AXC	150/-65	0	1000	30	0
AZ128BGAL	G	MR122030	R1	CY7C64713-128AXC	150/-65	0	1000	29	0
AZ128BGAL	G	MR122030	R1	CY7C64713-128AXC	150/-65	0	500	29	0
AZ64JAAALL	M	MR123004	R1	CY7C144E-15AXC	150/-65	0	500	30	0
AZ64JAAALL	M	MR123004	R1	CY7C144E-15AXC	150/-65	0	1000	30	0
AZ100RUBLN	R	MR113022	R1	CY7C1350G-200AXC	150/-65	0	3000	30	0
AZ100KGAN	G	MR123041	R1	CY7C024AV-25AXC	150/-65	0	500	30	0
AZ100KGAN	G	MR123041	R1	CY7C024AV-25AXC	150/-65	0	1000	30	0
AZ64JAAALL	M	MR124007	R1	CY7C144E-55AXC	150/-65	0	500	30	0
AZ64JAAALL	M	MR124007	R1	CY7C144E-55AXC	150/-65	0	1000	30	0
AZ100RJBLN	R	MR124034	R1	CY7C1350G-200AXCT	150/-65	0	500	30	0

**Summary for Package Family: TQFP (Pb-Free) 42 records**

**Sum 1537 0**

**TSOP (Pb-free)**

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



ZT32RBBALL	T	MR114065	R1	CY62128ELL-45ZX A	150/-65	0	1000	29	0
ZT32RBBALL	T	MR121034	R1	CY62128ELL-45ZX A	150/-65	0	1000	29	0
ZT28R2ABGN	JT	MR121061	R1	CY62256NLL-55ZX AT	150/-65	0	1000	6	0
ZT28R2ABGN	JT	MR121061	R1	CY62256NLL-55ZX AT	150/-65	0	500	7	0
ZT28R2ABGN	JT	MR122035	R1	CY7C62256NLL-55ZX A	150/-65	0	1000	29	0
ZT28R2ABGN	JT	MR122035	R1	CY7C62256NLL-55ZX A	150/-65	0	500	30	0
ZT32RABALL	T	MR122042	R1	CY62128EV30LL-45ZX IT	150/-65	0	1000	30	0
ZT32RABALL	T	MR122042	R1	CY62128EV30LL-45ZX IT	150/-65	0	500	30	0
ZT28R2ABGN	JT	MR123009	R1	CY62256NLL-55ZX AT	150/-65	0	500	30	0
ZT32RAEDLN	RA	MR123031	R1	CY62128EV30LL-45ZX I	150/-65	0	500	30	0
ZT28R2ABGN	JT	MR121061	R1	CY62256NLL-55ZX AT	150/-65	0	500	21	0
ZT28R2ABGN	JT	MR121061	R1	CY62256NLL-55ZX AT	150/-65	0	1000	21	0
ZT28R2ABGN	JT	MR123009	R1	CY62256NLL-55ZX AT	150/-65	0	1000	29	0
ZT32RAEDLN	RA	MR123031	R1	CY62128EV30LL-45ZX I	150/-65	0	1000	30	0
ZT32RAEDLN	RA	MR124003	R1	CY62128EV30LL-45ZX IT	150/-65	0	500	30	0
ZT32RAEDLN	RA	MR124003	R1	CY62128EV30LL-45ZX IT	150/-65	0	1000	29	0
ZT28R2ABGN	JT	MR124039	R1	CY62256NLL-55ZX AT	150/-65	0	500	30	0

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

**23 records**

**Sum**

**610 0**

**TSOP I (Pb-Free)**





ZB32RHCALN	JT	MR114008	R1	CY62138FV30LL-45ZAXI	150/-65	0	1000	30	0
ZB32RKALL	T	MR114011	R1	CY62128EV30LL-45ZAXI	150/-65	0	1000	30	0
ZB32RHABL N	JT	MR122021	R1	CY62138FV30LL-45ZAXA	150/-65	0	1000	29	0
ZB32RHABL N	JT	MR122021	R1	CY62138FV30LL-45ZAXA	150/-65	0	500	30	0
ZB32RHABL N	JT	MR123001	R1	CY62138FV30LL-45ZAXAT	150/-65	0	1000	29	0
ZB32RHABL N	JT	MR123001	R1	CY62138FV30LL-45ZAXAT	150/-65	0	500	30	0

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

**6 records**

**Sum**

**178 0**

**TSOP II (Pb-Free)**

ZW444AJLN	R	AR1118002	R1	7A122001GC	150/-65	0	1000	20	0
ZW444AMLN	R	AR1125002	R1	7A62146FC	150/-65	0	1000	20	0
ZW444AMLN	R	AR1126002	R1	CY62146ELL-45ZSXA	150/-65	0	1000	20	0
ZW444YBBL L	R	MR113006	R1	CY7C1041BN-15ZXIT	150/-65	0	2000	23	0
ZW444YBBL L	R	MR113006	R1	CY7C1041BN-15ZXIT	150/-65	0	1500	29	0
ZW324CBAL R	T	MR114005	R1	CY62148EV30LL-45ZSXAT	150/-65	0	500	27	0
ZW444AHHLL	R	MR114007	R1	CY62126EV30LL-55ZSXE	150/-65	0	1000	30	0
ZW444ABXAGL	RA	MR114027	R1	CY62137EV30LL-45ZSXI	150/-65	0	1000	30	0
ZW444ALLR	G	MR114043	R1	CY7C1051DV33-10ZSXI	150/-65	0	1000	30	0
ZW324CBAL R	T	MR114057	R1	CY62148EV30LL-45ZSXAT	150/-65	0	500	30	0
ZW324CBAL R	T	MR114057	R1	CY62148EV30LL-45ZSXAT	150/-65	0	1000	30	0



ZW444AKCLN	R	MR114064	R1	CY7C1011CV33-12ZSXE	150/-65	0	500	29	0
ZW444AXAGL	RA	MR121003	R1	CY7C1021D-10ZSXIT	150/-65	0	500	30	0
ZW444AXAGL	RA	MR121003	R1	CY7C1021D-10ZSXIT	150/-65	0	1000	30	0
ZW444ADXAGL	RA	MR121018	R1	CY14B104NA-ZS45XIT	150/-65	0	500	30	0
ZW444ADXAGL	RA	MR121018	R1	CY14B104NA-ZS45XIT	150/-65	0	1000	30	0
ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	150/-65	0	500	28	0
ZW544AALL	G	MR121022	R1	CY7C1069AV33-10ZXCT	150/-65	0	1000	28	0
ZW324FBGL	T	MR121026	R1	CY7C1019CV33-10ZXA	150/-65	0	500	29	0
ZW324FBGL	T	MR121026	R1	CY7C1019CV33-10ZXA	150/-65	0	1000	28	0
ZW444AIDLL	JT	MR121037	R1	CY62126EV30LL-45XIKJ	150/-65	0	500	29	0
ZW444AIDLL	JT	MR121037	R1	CY62126EV30LL-45XIKJ	150/-65	0	1000	29	0
ZW444VDLL	JT	MR121057	R1	CY62147EV30LL-45XAKJ	150/-65	0	500	30	0
ZW444RACLN	JT	MR122013	R1	CY62137VNLL-70ZSXA	150/-65	0	500	24	0
ZW324FBGL	T	MR122036	R1	CY7C1019CV33-10ZXA	150/-65	0	500	29	0
ZW324FBGL	T	MR122036	R1	CY7C1019CV33-10ZXA	150/-65	0	1000	28	0
ZW544BGALL	G	MR122040	R1	CY7C1069DV33-10ZSXI	150/-65	0	500	29	0
ZW544BGALL	G	MR122040	R1	CY7C1069DV33-10ZSXI	150/-65	0	1000	29	0
ZW444AXXAGL	RA	MR122041	R1	CY14B101LA-ZS45XI	150/-65	0	500	30	0
ZW444AXXAGL	RA	MR122041	R1	CY14B101LA-ZS45XI	150/-65	0	1000	30	0
ZW444AOLN	JT	MR123002	R1	CY62146ELL-45ZSXA	150/-65	0	500	30	0



ZW324FBGL	T	MR123010	R1	CY7C1019CV33-10ZXAT	150/-65	0	500	29	0
ZW324FBGL	T	MR123010	R1	CY7C1019CV33-10ZXAT	150/-65	0	1000	28	0
ZW544AALL	G	MR123028	R1	CY7C1069AV33-10ZXC	150/-65	0	500	30	0
ZW444ALLR	G	MR123045	R1	CY7C1051DV33-12ZSXIT	150/-65	0	500	30	0
ZW444AXAGL	RA	122201	R1	CY7C1021D-10ZSXIT	150/-65	0	500	76	0
ZW444AMLN	R	AR1139002	R1	7A62146FC	150/-65	0	500	20	0
ZW444AMLN	R	AR1139002	R1	7A62146FC	150/-65	0	1000	20	0
ZW444YBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150/-65	0	2500	23	0
ZW444YBLL	R	MR113006	R1	CY7C1041BN-15ZXIT	150/-65	0	3000	21	0
ZW324CBALR	T	MR114005	R1	CY62148EV30LL-45ZSXAT	150/-65	0	1000	27	0
ZW444AKCLN	R	MR114064	R1	CY7C1011CV33-12ZSXE	150/-65	0	1000	28	0
ZW444AHILL	JT	MR114069	R1	CY62126EV30LL-45XAKJ	150/-65	0	1000	29	0
ZW444VDLL	JT	MR121057	R1	CY62147EV30LL-45XAKJ	150/-65	0	1000	29	0
ZW444RACLN	JT	MR122013	R1	CY62137VNLL-70ZSXA	150/-65	0	1000	23	0
ZW444AOLN	JT	MR123002	R1	CY62146ELL-45ZSXA	150/-65	0	1000	29	0
ZW444AXAGL	RA	MR123026	R1	CY14B101LA-ZS45XIT	150/-65	0	500	29	0
ZW444AXAGL	RA	MR123026	R1	CY14B101LA-ZS45XIT	150/-65	0	1000	28	0
ZW544AALL	G	MR123028	R1	CY7C1069AV33-10ZXC	150/-65	0	1000	30	0
ZW444ALLR	G	MR123045	R1	CY7C1051DV33-12ZSXIT	150/-65	0	1000	30	0
ZW444ABXAGL	RA	MR124004	R1	CY62146ESL-45ZSXI	150/-65	0	500	30	0



ZW44ABXAGL	RA	MR124004	R1	CY62146ESL-45ZSXI	150/-65	0	1000	30	0
ZW544AALL	G	MR124006	R1	CY7C1061AV33-10ZXI	150/-65	0	500	28	0
ZW544AALL	G	MR124006	R1	CY7C1061AV33-10ZXI	150/-65	0	1000	28	0
ZW444ALLR	G	MR124042	R1	CY7C1051DV33-10ZSXI	150/-65	0	500	30	0

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

**55 records**

**Sum**

**1573 0**

**RTSOP (Pb-free)**

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

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

**2 records**

**Sum**

**60 0**

**TSSOP (Pb-Free)**

ZZ1620GBAN	RA	MR114026	R1	CY22388ZXC-26T	150/-65	0	1000	30	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	150/-65	0	1000	29	0
ZZ1614HAN	T	MR121001	R1	CY25823ZXC	150/-65	0	500	29	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	150/-65	0	500	30	0
ZZ1620GBAN	RA	MR121002	R1	CY22388ZXC-27T	150/-65	0	1000	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	150/-65	0	1000	30	0
ZZ2014BGN	T	MR122014	R1	CY25404ZXI013T	150/-65	0	500	30	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	150/-65	0	500	29	0



ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	150/-65	0	500	30	0
ZZ1620GCAN	RA	AR1141009	R1	CY2309ZXC-1HT	150/-65	0	1000	17	0
ZZ1620GCAN	RA	AR1141009	R1	CY2309ZXC-1HT	150/-65	0	500	17	0
ZZ1614HAN	T	AR1143068	R1	CY26049ZXC-36	150/-65	0	1000	20	0
ZZ1614HAN	T	AR1143068	R1	CY26049ZXC-36	150/-65	0	500	20	0
ZZ1620GBAGN	RA	MR122015	R1	CY2309ZC-1HT	150/-65	0	1000	29	0
ZZ1620GCAN	RA	MR122019	R1	CY2309ZXC-1HT	150/-65	0	1000	30	0
ZZ1620GBAN	RA	MR123018	R1	CY22150FZXCT	150/-65	0	1000	30	0
ZZ1620GBAN	RA	MR123018	R1	CY22150FZXCT	150/-65	0	500	30	0
ZZ2014BGN	T	MR123021	R1	CY25404ZXI217T	150/-65	0	500	30	0
ZZ1620GDAN	RA	AR1236019	R1	CY23EP09ZXC-1HT	150/-65	0	500	20	0
ZZ1620GDAN	RA	AR1236019	R1	CY23EP09ZXC-1HT	150/-65	0	1000	20	0
ZZ1620GDAN	RA	AR1236020	R1	CY23EP09ZXC-1HT	150/-65	0	500	20	0
ZZ1620GDAN	RA	AR1236020	R1	CY23EP09ZXC-1HT	150/-65	0	1000	20	0
ZZ1620GDAN	RA	AR1236021	R1	CY23EP09ZXC-1HT	150/-65	0	500	20	0
ZZ1620GDAN	RA	AR1236021	R1	CY23EP09ZXC-1HT	150/-65	0	1000	20	0
ZZ1620GDAN	RA	AR1236022	R1	CY2309CZXI-1H	150/-65	0	500	20	0
ZZ1620GDAN	RA	AR1236022	R1	CY2309CZXI-1H	150/-65	0	1000	20	0
ZZ1620GDAN	RA	AR1236023	R1	CY23EP09ZXC-1HT	150/-65	0	500	20	0
ZZ1620GDAN	RA	AR1236023	R1	CY23EP09ZXC-1HT	150/-65	0	1000	20	0



ZZ2014BGN	T	MR123021	R1	CY25404ZXI217T	150/-65	0	1000	30	0
ZZ1620GBAN	RA	MR124001	R1	CY22393FXCT	150/-65	0	500	30	0
ZZ1620GBAN	RA	MR124001	R1	CY22393FXCT	150/-65	0	1000	30	0
ZZ2014BGN	T	MR124005	R1	CY25404ZXI011T	150/-65	0	500	30	0
ZZ2014BGN	T	MR124005	R1	CY25404ZXI011T	150/-65	0	1000	30	0

**Summary for Package Family: TSSOP (Pb-Free)**

**33 records**

**Sum**

**840 0**

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

BV48BNALE	G	MR113066	R1	CY62167DV30LL-70BVI	150/-65	0	1000	30	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	150/-65	0	500	29	0
BV48DAAALE	RA	MR114010	R1	CY62137FV30LL-45BVIT	150/-65	0	1000	29	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	150/-65	0	500	30	0
BV48ATALE	RA	MR114066	R1	CY62157DV30LL-55BVIT	150/-65	0	1000	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	150/-65	0	500	30	0
BV48CFAALE	G	MR114078	R1	CY62157EV30LL-45BVIT	150/-65	0	1000	30	0
BV48CRALE	G	MR123032	R1	CY62167EV30LL-45BVIT	150/-65	0	500	30	0
BV48CRALE	G	MR123032	R1	CY62167EV30LL-45BVIT	150/-65	0	1000	30	0

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

**9 records**

**Sum**

**268 0**

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



BZ84AAAAAL	RA	112210	R1	CY8CTMA1036BZI-13ES	150/-65	0	1000	80	0
BZ84AAAAAL	RA	112210	R2	CY8CTMA1036BZI-13ES2	150/-65	0	1000	80	0
BZ84AAAAAL	RA	112210	R3	CY8CTMA1036BZI-13ES	150/-65	0	1000	80	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	150/-65	0	500	30	0
BZ100BABLL	RA	MR121008	R1	CYDMX128A16-65BVXIT	150/-65	0	1000	30	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150/-65	0	1000	104	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150/-65	0	1500	94	0
BZ100HAALL	RA	120609	R3	CYWB0226ABM-BVXI	150/-65	0	2000	94	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150/-65	0	1000	98	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150/-65	0	1500	88	0
BZ48CJALL	RA	120610	R3	CY62167DV30LL-55BVXI	150/-65	0	2000	88	0
BZ48CEAALL	G	MR113057	R1	CY62147EV30LL-45BVXA	150/-65	0	1000	30	0
BZ48CEAALL	G	MR114006	R1	CY62147EV30LL-45B2XA	150/-65	0	500	30	0
BZ48CNAALL	G	MR114018	R1	CY62167DV30LL-55BVXI	150/-65	0	500	30	0
BZ48CNAALL	G	MR114075	R1	CY62167DV30LL-55BVXI	150/-65	0	500	30	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	150/-65	0	500	30	0
BZ48DAGLL	RA	MR121004	R1	CY62137FV30LL-45BVXIT	150/-65	0	1000	30	0
BZ48CEAALL	G	MR121025	R1	CY62147EV30LL-45BVXA	150/-65	0	500	30	0
BZ48CEAALL	G	MR121050	R1	CY62136EV30LL-45BVXI	150/-65	0	500	30	0
BZ48CEAALL	G	MR122011	R1	CY62147EV30LL-45BVXA	150/-65	0	500	30	0



BZ48CNAALL	G	MR114018	R1	CY62167DV30LL-55BVXI	150/-65	0	1000	29	0
BZ48CNAALL	G	MR114075	R1	CY62167DV30LL-55BVXI	150/-65	0	1000	30	0
BZ48CEAALL	G	MR121025	R1	CY62147EV30LL-45BVXA	150/-65	0	1000	29	0
BZ48CEAALL	G	MR122011	R1	CY62147EV30LL-45BVXA	150/-65	0	1000	29	0
BZ56BGALL	RA	MR122045	R1	CY7C68013A-56BAXC	150/-65	0	1000	30	0
BZ56BGALL	RA	MR122045	R1	CY7C68013A-56BAXC	150/-65	0	500	30	0
BZ48DAGLL	RA	MR122046	R1	CY62137FV30LL-45BVXI	150/-65	0	1000	30	0
BZ48DAGLL	RA	MR122046	R1	CY62137FV30LL-45BVXI	150/-65	0	500	30	0
BZ56GABGL	RA	MR123022	R1	CY7C68053-56BAXI	150/-65	0	1000	30	0
BZ56GABGL	RA	MR123022	R1	CY7C68053-56BAXI	150/-65	0	500	30	0
BZ48CEAALL	G	MR123034	R1	CY62147EV30LL-45BVXA	150/-65	0	500	30	0
BZ84ACAAAL	G	NR122002	R1	CY8CTMA1036BZI-12	150/-65	0	1000	25	0
BZ84ACAAAL	G	NR122002	R1	CY8CTMA1036BZI-12	150/-65	0	500	25	0
BZ84AAAAAL	RA	NR122004	R2	CY8CTMA1036BZI-12	150/-65	0	500	25	0
BZ84AAAAAL	RA	NR122004	R3	CY8CTMA1036BZI-12	150/-65	0	1000	25	0
BZ48CEAALL	G	MR123034	R1	CY62147EV30LL-45BVXA	150/-65	0	1000	29	0
BZ48CEAALL	G	MR124028	R1	CY62147EV30LL-45BVXA	150/-65	0	500	29	0
BZ48CWALL	G	MR124045	R1	CY7C1061DV33-10BVXIT	150/-65	0	500	30	0

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

38

records

Sum

1651

0





**PBGA (Pb-Free)**

BY119SALL	G	MR124018	R1	CY7C1354C-200BGXC	150/-65	0	500	30	0
BY119SALL	G	MR124018	R1	CY7C1354C-200BGXC	150/-65	0	1000	30	0

**Summary for Package Family: PBGA (Pb-Free)**

**2 records**

**Sum**

**60 0**



## Document History Page

Document Title: 2012 Q4 RELIABILITY REPORT  
Document Number: 001-86389

Rev.	ECN No.	Orig. of Change	Description of Change
**	3915782	JYF	Initial spec release.

Distribution: WEB

Posting: NONE