

# RELIABILITY REPORT





# Reliability Data Report

## Product Family R538

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LTC2000 \ LTC2001 \ LTC2107 \ LTC2122 \ LTC2123 \  
LTC2124 \ LTC2140 \ LTC2141 \ LTC2142 \ LTC2143 \  
LTC2144 \ LTC2145 \ LTC2150 \ LTC2151 \ LTC2152 \  
LTC2153 \ LTC2155 \ LTC2156 \ LTC2157 \ LTC2158 \  
LTC2159 \ LTC2160 \ LTC2161 \ LTC2162 \ LTC2163 \  
LTC2164 \ LTC2165 \ LTC2170 \ LTC2171 \ LTC2172 \  
LTC2173 \ LTC2175 \ LTC2180 \ LTC2181 \ LTC2182 \  
LTC2183 \ LTC2184 \ LTC2185 \ LTC2188 \ LTC2190 \  
LTC2191 \ LTC2192 \ LTC2193 \ LTC2194 \ LTC2195 \  
LTC2256 \ LTC2257 \ LTC2258 \ LTC2259 \ LTC2260 \  
LTC2261 \ LTC2262 \ LTC2263 \ LTC2264 \ LTC2265 \  
LTC2266 \ LTC2267 \ LTC2268 \ LTC2269 \ LTC2270 \  
LTC2271

# Reliability Data Report

## Report Number: R538

Report generated on: Wed Feb 10 17:21:42 PST 2016

<b>OPERATING LIFE TEST</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE HRS (+125°C)<sup>1</sup></b>	<b>No. of FAILURES <sub>2, 3</sub></b>
BGA 15X09	77	1402	1402	77	0
QFN/DFN	468	0921	1407	468	0
Totals	545	-	-	545	0
<b>PRESSURE COOKER TEST AT 15 PSIG , +121 DEG C</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE HRS</b>	<b>No. of FAILURES</b>
QFN/DFN	449	1246	1419	10	0
Totals	449	-	-	10	0
<b>TEMP CYCLE FROM -65 TO 150 DEG C</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE CYCLES</b>	<b>No. of FAILURES</b>
QFN/DFN	400	1246	1414	40	0
Totals	400	-	-	40	0
<b>THERMAL SHOCK FROM -65 TO 150 DEG C</b>					
<b>PACKAGE TYPE</b>	<b>SAMPLE SIZE</b>	<b>OLDEST DATE CODE</b>	<b>NEWEST DATE CODE</b>	<b>K DEVICE CYCLES</b>	<b>No. of FAILURES</b>
QFN/DFN	400	1246	1414	40	0
Totals	400	-	-	40	0

(1) Assumes Activation Energy = 0.7 Electron Volts  
 (2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =21.74 FITS  
 (3) Mean Time Between Failure in Years = 5250.6

Note 1: 1 FIT = 1 Failure in One Billion Hours.  
 Note 2: HAST, Temp Cycle & Thermal Shock are subjected to J-STD-020 MSL Preconditioning

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HIGH TEMPERATURE BAKE AT 150 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS	No. of FAILURES
QFN/DFN	50	1249	1249	25	0
Totals	50	-	-	25	0