



## Reliability Data Report Product Family R494

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LTC997 / LTC6903 / LTC6904 /  
LTC6905 / LTC6906 / LTC6907 /  
LTC6908 / LTC6909 / LTC6930 /  
LTC6990 / LTC6991 / LTC6992 /  
LTC6993 / LTC6994 / LTC6995

# Reliability Data Report

## Report Number: R494

Report generated on: Tue Mar 11 16:40:13 PDT 2014

OPERATING LIFE TEST					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+125°C) <sup>1</sup>	No. of FAILURES <sup>2,3</sup>
SOIC/SOT/MSOP	1324	0415	1319	1019	0
QFN/DFN	77	0630	0630	77	0
Totals	1,401	-	-	1,096	0

HIGHLY ACCELERATED STRESS TEST AT +130 DEG C / 85% RH					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+85°C) <sup>4</sup>	No. of FAILURES
SOIC/SOT/MSOP	154	1146	1146	406	0
Totals	154	-	-	406	0

PRESSURE COOKER TEST AT 15 PSIG , +121 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS	No. of FAILURES
QFN/DFN	378	0602	1122	41	0
SOIC/SOT/MSOP	4550	0438	1324	207	0
Totals	4,928	-	-	248	0

TEMP CYCLE FROM -65 TO 150 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	No. of FAILURES
QFN/DFN	348	0606	1122	76	0
SOIC/SOT/MSOP	3865	0438	1321	498	0
Totals	4,213	-	-	574	0

THERMAL SHOCK FROM -65 TO 150 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	No. of FAILURES
SOIC/SOT/MSOP	4038	0438	1321	513	0
QFN/DFN	300	0602	0826	66	0
Totals	4,338	-	-	579	0

HIGH TEMPERATURE BAKE AT 150 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS	No. of FAILURES
SOIC/SOT/MSOP	79	0822	0908	79	0
Totals	79	-	-	79	0

- (1) Assumes Activation Energy = 0.7 Electron Volts  
 (2) Failure Rate Equivalent to +55 °C, 60% Confidence Level = 10.77 FITS  
 (3) Mean Time Between Failure in Years = 10599.46  
 (4) Assumes 20X Acceleration from 85 °C to +130 °C

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 175 DEG C					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS	No. of FAILURES
SOIC/SOT/MSOP	100	1301	1317	50	0
Totals	100	-	-	50	0