





Reliability Data Report Product Family R595

LTC2980 / LTM2987



Reliability Data Report Report Number: R595 Report generated on: Wed Jul 20 16:38:35 PDT 2016

OPERATING L					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE	(+125°C) ¹	2,3
BGA 12X12	77	1430	1430	77	0
Totals	77	-	-	77	0
HIGHLY ACCE	LERATED STR	ESS TEST AT +	130 DEG C / 85%	% RH	
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE	(+85°C) ⁴	
BGA 12X12	231	1429	1432	887	0
BGA 15X15	996	1302	1543	1912	0
Totals	1,227	-	-	2,799	0
TEMP CYCLE	FROM -55 TO 12	25 DEG C			
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
171010102 1112	O/ time EE GIEE	CODE	CODE	CYCLES	THO OF FAILURE
BGA 12X12	231	1429	1432	301	0
BGA 15X15	1403	1211	1543	988	0
Totals	1,634	-	-	1,289	0
THERMAL SHO	OCK FROM -55	TO 125 DEG C			
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
		CODE	CODE	CYCLES	
BGA 12X12	230	1429	1432	230	0
BGA 15X15	966	1211	1542	968	0
Totals	1,196	-	-	1,198	0
THEDMAL CH					
I HEKWAL SH	OCK FROM -65	TO 150 DEG C			
PACKAGE TYPE	SAMPLE SIZE	TO 150 DEG C OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
			NEWEST DATE	K DEVICE CYCLES	No. of FAILURES
		OLDEST DATE			No. of FAILURES
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	CODE	CYCLES	No. of FAILURES
PACKAGE TYPE BGA 15X15 Totals	SAMPLE SIZE	OLDEST DATE CODE 1419 -	CODE	CYCLES 5	0
PACKAGE TYPE BGA 15X15 Totals	SAMPLE SIZE 50 50	OLDEST DATE CODE 1419 -	CODE	CYCLES 5	0
BGA 15X15 Totals HIGH TEMPER	SAMPLE SIZE 50 50 EATURE BAKE	OLDEST DATE CODE 1419 AT 150 DEG C OLDEST DATE	CODE 1419 -	CYCLES 5 5	0 0
BGA 15X15 Totals HIGH TEMPER	SAMPLE SIZE 50 50 EATURE BAKE	OLDEST DATE CODE 1419 - AT 150 DEG C	CODE 1419 - NEWEST DATE	CYCLES 5 5	0 0
BGA 15X15 Totals HIGH TEMPER PACKAGE TYPE	SAMPLE SIZE 50 50 EATURE BAKE A SAMPLE SIZE	OLDEST DATE CODE 1419 - AT 150 DEG C OLDEST DATE CODE	CODE 1419 - NEWEST DATE CODE	5 5 5	0 0 No. of FAILURES

- (1) Assumes Activation Energy = 1.0 Electron Volts (2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =23.81 FITS (3) Mean Time Between Failure in Years = 4794.87
- (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



Reliability Data Report Report Number: R595 Report generated on: Wed Jul 20 16:38:35 PDT 2016

HIGH TEMPERATURE BAKE AT 125 DEG C								
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES			
		CODE	CODE					
BGA 15X15	148	1431	1501	148	0			
Totals	148	-	-	148	0			