



Reliability Data Report

Product Family R413

LTC987 LTC1726/27/28

LTC1921/85 LTC2369

LTC2900/01/02/03/04/05/06/07/08/09/10

LTC2911/12/13/14/15/16/17/18/19

LTC2920/23/24/25/26/27/28

LTC2930/31/32/50/51/54

LTC4150/4257/4261/4263/4265/4267

LTC4301/4302/4354/4370

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Report Number: R413

Report generated on: Thu Sep 20 10:01:49 PDT 2012

OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+125°C) ¹	No. of FAILURES _{2,3}
QFN/DFN	388	0421	0839	323	0
SSOP/TSSOP	1127	0213	0721	947	0
SOIC/SOT/MSOP	2020	9914	0731	1778	0
Totals	3,535	-	-	3,048	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	4783	0325	1122	478	0
SSOP/TSSOP	5047	0436	1124	251	0
SOIC/SOT/MSOP	11500	9924	1122	729	0
Totals	21,330	-	-	1,458	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	4280	0325	1122	1204	0
SSOP/TSSOP	1503	0436	1119	540	0
SOIC/SOT/MSOP	12426	9924	1122	1894	0
Totals	18,209	-	-	3,638	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
QFN/DFN	4243	0325	1122	1193	0
SSOP/TSSOP	1744	0734	1119	450	0
SOIC/SOT/MSOP	8918	9924	1122	1524	0
Totals	14,905	-	-	3,167	0

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	245	0743	0852	245	0
SSOP/TSSOP	50	1018	1018	25	0
Totals	295	-	-	270	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =0.6 FITS

(3) Mean Time Between Failure in Years = 189802.31

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
SSOP/TSSOP	50	1018	1018	25	0
SOIC/SOT/MSOP	150	0838	0906	125	0
Totals	200	-	-	150	0