

RELIABILITY REPORT





Reliability Data Report

Product Family R548

LT3741 / LT3743 / LT3745 / LT3746 /
LT3763

Reliability Data Report

Report Number: R548

Report generated on: Fri Jun 10 14:18:17 PDT 2016

OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HRS (+125°C) ¹	No. of FAILURES _{2, 3}
SSOP/TSSOP	77	1209	1209	431	0
QFN/DFN	456	0842	1041	456	0
Totals	533	-	-	887	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
SSOP/TSSOP	547	1042	1449	13	0
QFN/DFN	150	1249	1313	3	0
Totals	697	-	-	16	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
SSOP/TSSOP	549	1042	1449	54	0
QFN/DFN	150	1249	1313	15	0
Totals	699	-	-	69	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
SSOP/TSSOP	548	1042	1449	54	0
QFN/DFN	226	0946	1313	53	0
Totals	774	-	-	107	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	48	1249	1249	48	0
Totals	48	-	-	48	0

(1) Assumes Activation Energy = 0.7 Electron Volts

(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level = 13.36 FITS

(3) Mean Time Between Failure in Years = 8545.46

Note: 1 FIT = 1 Failure in One Billion Hours.

Note 2: HAST, Temp Cycle & Thermal Shock are subjected to J-STD-020 MSL1 Preconditioning