

RELIABILITY REPORT





NOW PART OF



Reliability Data Report

Product Family R568

LT4220 / LT4254 / LT4256 / LT4356 /
LT4363

Reliability Data Report

Report Number: R568

Report generated on: Mon Mar 05 11:05:28 PST 2018

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	303	0630	1017	303	0
SSOP/TSSOP	340	0319	1224	340	0
SOIC/MSOP	687	0421	1707	624	0
Totals	1,330	-	-	1,267	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)⁴	No. of FAILURES
SOIC/MSOP	697	1017	1643	1338	0
Totals	697	-	-	1,338	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	847	0915	1512	20	0
SSOP/TSSOP	200	0301	1428	21	0
SOIC/MSOP	4173	0344	1713	245	0
Totals	5,220	-	-	286	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	944	0840	1512	94	0
SSOP/TSSOP	200	0301	1428	65	0
SOIC/MSOP	4202	0344	1713	786	0
Totals	5,346	-	-	945	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	941	0840	1512	94	0
SSOP/TSSOP	150	1031	1428	15	0
SOIC/MSOP	3799	0344	1713	672	0
Totals	4,890	-	-	781	0

(1) Assumes Activation Energy = 1.0 Electron Volts

(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =1.45 FITS

(3) Mean Time Between Failure in Years = 78897.49

(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
SSOP/TSSOP	50	1702	1702	25	0
SOIC/MSOP	144	1312	1312	144	0
Totals	194	-	-	169	0