

RELIABILITY DATA LT3070 / LT3071

10/15/2009

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
QFN/DFN	77 77	0910	0910	77.00 77.00	0 0

• PRESSURE COOKER TEST AT 15 PSIG, +121°C

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS	NUMBER OF FAILURES
QFN/DFN	150 150	0910	0910	50.40 50.40	0 0

• TEMP CYCLE FROM -65°C to +150°C

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES
QFN/DFN	154 154	0910	0910	154.00 154.00	0 0

• THERMAL SHOCK FROM -65°C to +150°C

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES
QFN/DFN	154 154	0910	0910	154.00 154.00	0 0

(1) Sample size too small for meaningful FIT calculations

(2) FIT by Process technology below, refer to LTC Reliability Data Pack: http://www.linear.com/designtools/quality/Rel_Data_Pack.pdf

(3) Assumes Activation Energy = 0.7 Electron Volts

(4) Failure Rate Equivalent to +55°C, 60% Confidence Level = 4.53 FITS

(5) Mean Time Between Failures in Years = 25,224

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