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RELIABILITY REPORT

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RELIABILITY DATA LTC5598					
8/26/2010					
OPERATING LIFE	ETEST		1		
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICF HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
QFN/DFN	151 151	0901	0901	86.94 86.94	0 0
• PRESSURE COOKER TEST AT 15 PSIG, +121°C ⁽⁶⁾					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS	NUMBER OF FAILURES
SOIC/SOT/MSOP QFN/DFN	77 558 635	0706 0639	0706 0850	25.87 125.09 150.96	0 0 0
• TEMP CYCLE FROM -65°C to +150°C ⁽⁶⁾					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES
SOIC/SOT/MSOP QFN/DFN	70 555 625	0706 0639	0706 0850	70.00 376.80 446.80	0 0 0
• THERMAL SHOCK FROM -65°C to +150°C ⁽⁶⁾					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE CYCLES	NUMBER OF FAILURES
SOIC/SOT/MSOP QFN/DFN	76 508 584	0706 0639	0706 0850	76.00 399.00 469.00	0 0 0
 (1) Sample size is too small to provide meaningful FIT. (2) FIT by Process technology below, refer to LTC Reliability Data Pack: <u>http://www.linear.com/designtools/quality/Rel_Data_Pack.pdf</u> (3) Assumes Activation Energy = 0.7 Electron Volts (4) Failure Rate Equivalent to +55°C, 60% Confidence Level = 11.76 FITS (5) Mean Time Between Failures in Years = 9,703 (6) Environmental data presented for same Process Technology. Mechanical tests preceeded by J-STD-020 Preconditioning. 					
Note: 1 FIT = 1 Failure in One Billion Hours.					

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