





RELIABILITY DATA LTC5549

9/22/2015

 OPERA 	TING L	JIFE TEST
---------------------------	--------	-----------

• TEMP CYCLE FROM -65°C to +150°C Newest Date code K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 1450 154.00 0 0 0 • THERMAL SHOCK FROM -65°C to +150°C NEWEST DATE CODE K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 NEWEST DATE CODE K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 1450 154.00 0 0 0 154.00 0 0 • HIGH TEMPERATURE BAKE AT 150°C NEWEST DATE CODE NEWEST DATE CODE K DEVICE HOURS NUMBER OF FAILURES QFN 154 154 1450 1450 1450 154.00 0 0 0 0 0 QFN 154 154 1450 1450 1450 154.00 0 0 0 0 0	OI ERATINO EII I							
154					HOURS (1)	OF ⁽²⁾		
• HIGHLY ACCELERATED STRESS TEST AT +130°C/85%RH PACKAGE TYPE SAMPLE SIZE OLDEST DATE CODE NEWEST DATE CODE NUMBER HOURS (4) AT +85°C NUMBER OF FAILURES QFN 77 1450 1450 293.76 0 • PRESSURE COOKER TEST AT 15 PSIG, +121°C NEWEST DATE CODE NEWEST HOURS NUMBER OF FAILURES QFN 141 1450 1450 47.38 0 • TEMP CYCLE FROM -65°C to +150°C OLDEST DATE CODE NEWEST DATE CODE K DEVICE OF FAILURES QFN 154 1450 1450 154.00 0 • THERMAL SHOCK FROM -65°C to +150°C NEWEST DATE CODE K DEVICE OF FAILURES NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 • THERMAL SHOCK FROM -65°C to +150°C NEWEST DATE CODE K DEVICE OF FAILURES NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 • HIGH TEMPERATURE BAKE AT 150°C NEWEST DATE CODE K DEVICE HOURS NUMBER OF FAILURES QFN 154 154 154.00	QFN		1450	1450		ŭ		
PACKAGE	A HICHI V ACCELE		EST AT .420°C/050	/ D U	154.00	0		
PACKAGE TYPE SIZE DATE CODE DATE	HIGHLY ACCELE	KAIED SIKESS II	ESTAT +130 C/657	/oKП				
77	TYPE		DATE CODE		HOURS (4)	OF		
PRESSURE COOKER TEST AT 15 PSIG, +121°C PACKAGE TYPE SIZE OLDEST DATE CODE NEWEST DATE CODE NUMBER OF FAILURES QFN 154 1450 1450 1450 154.00 0 • HIGH TEMPERATURE BAKE AT 150°C PACKAGE TYPE SIZE OLDEST DATE CODE NEWEST DATE CODE NUMBER OF FAILURES QFN 154 1450 1450 1450 154.00 0 • HIGH TEMPERATURE BAKE AT 150°C PACKAGE SAMPLE SIZE OLDEST DATE CODE NEWEST DATE CODE NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 • THERMAL SHOCK FROM -65°C to +150°C PACKAGE SIZE OLDEST DATE CODE NEWEST DATE CODE NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 • THERMAL SHOCK FROM -65°C to +150°C	QFN		1450	1450		-		
PACKAGE TYPE SIZE DATE CODE NEWEST DATE CODE HOURS NUMBER OF FAILURES								
PACKAGE TYPE SIZE			,					
• TEMP CYCLE FROM -65°C to +150°C Newest Date code K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 1450 154.00 0 0 0 • THERMAL SHOCK FROM -65°C to +150°C NEWEST DATE CODE K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 NEWEST DATE CODE K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 1450 154.00 0 0 0 154.00 0 0 • HIGH TEMPERATURE BAKE AT 150°C NEWEST DATE CODE NEWEST DATE CODE K DEVICE HOURS NUMBER OF FAILURES QFN 154 154 1450 1450 1450 154.00 0 0 0 0 0 QFN 154 154 1450 1450 1450 154.00 0 0 0 0 0						OF		
• 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 154 1450 1450 154.00 0 • THERMAL SHOCK FROM -65°C to +150°C OLDEST DATE CODE NEWEST DATE CODE K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 • HIGH TEMPERATURE BAKE AT 150°C NEWEST DATE CODE NEWEST DATE CODE K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 • HIGH TEMPERATURE BAKE AT 150°C NEWEST DATE CODE NEWEST DATE CODE NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 QFN 154 1450 1450 154.00 0	QFN	141	1450	1450		-		
PACKAGE TYPE SIZE					47.38	0		
PACKAGE TYPE SIZE DATE CODE DATE CODE CYCLES OF FAILURES	• TEMP CYCLE FROM -65°C to +150°C							
• 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 154 1450 1450 154.00 0 • HIGH TEMPERATURE BAKE AT 150°C OLDEST DATE CODE NEWEST DATE CODE K DEVICE HOURS NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 QFN 154 1450 1450 1450 154.00 0 154 154.00 0 0 0 0 0						OF		
PACKAGE TYPE SAMPLE SIZE OLDEST DATE CODE NEWEST DATE CODE K DEVICE CYCLES NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 • HIGH TEMPERATURE BAKE AT 150°C OLDEST DATE CODE NEWEST DATE CODE K DEVICE HOURS NUMBER OF FAILURES QFN 154 1450 1450 1450 154.00 0 QFN 154 1450 1450 1450 154.00 0 154 154 1450 1450 154.00 0	QFN		1450	1450				
PACKAGE TYPE SAMPLE SIZE OLDEST DATE CODE NEWEST DATE CODE K DEVICE CYCLES NUMBER OF FAILURES QFN 154 154 1450 1450 154.00 0 0 • HIGH TEMPERATURE BAKE AT 150°C OLDEST DATE CODE NEWEST DATE CODE K DEVICE HOURS NUMBER OF FAILURES QFN 154 1450 1450 1450 154.00 0 0 154 154 1450 1450 154.00 0 0	• THERMAL SHOC		150°C		154.00	U		
PACKAGE TYPE SAMPLE SIZE OLDEST DATE CODE NEWEST DATE CODE K DEVICE CYCLES OF FAILURES QFN 154 1450 1450 154.00 0 • HIGH TEMPERATURE BAKE AT 150°C OLDEST DATE CODE NEWEST DATE CODE NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 QFN 154 1450 1450 154.00 0 154 154.00 0 0 0 0 0								
154						OF		
PACKAGE TYPE SIZE OLDEST DATE CODE NEWEST DATE CODE NUMBER OF FAILURES QFN 154 1450 1450 154.00 0 154 0 0 0	QFN		1450	1450		-		
PACKAGE TYPE SIZE OLDEST DATE CODE NEWEST DATE CODE HOURS NEWEST DATE CODE HOURS NUMBER OF FAILURES NUMBER OF FAILURES 154.00 0 154.00 0								
154 154.00 0	PACKAGE	SAMPLE	OLDEST			OF		
	QFN A 1		1450	1450				

- (1) Assumes Activation Energy = 0.7 Electron Volts
- (2) Failure Rate Equivalent to +55°C, 60% Confidence Level = 76.45 FITS
- (3) Mean Time Between Failures in Years = 1,493
- (4) Assumes 20X Acceleration from 85°C to +130°C

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

Form: 00-03-6209B.