





Reliability Data Report Product Family R565

LTC6945 / LTC6946 / LTC6947 / LTC6948 / LTC6950 / LTC6954 / LTC6957



Reliability Data Report Report Number: R565 Report generated on: Wed Feb 10 17:21:00 PST 2016

OPERATING LIFE TEST					
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE	(+125°C) ¹	2,3
SOIC/MSOP	77	1133	1133	77	0
QFN/DFN	233	1002	1352	598	0
Totals	310	-	-	675	0
PRESSURE CO	OOKER TEST A	T 15 PSIG , +12	1 DEG C		
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE		
QFN/DFN	306	1238	1302	77	0
Totals	306	-	-	77	0
TEMP CYCLE I	FROM -65 TO 1	50 DEG C			
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
TAONAOL III L	OAMII LL OIZL	CODE	CODE	CYCLES	No. of FAILORE
QFN/DFN	230	1249	1302	153	0
Totals	230	-	-	153	0
THERMAL SHO	OCK FROM -65	TO 150 DEG C			
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE	No. of FAILURES
17.010.102 111 2	O/tim LL OILL	CODE	CODE	CYCLES	No. of Falconic
QFN/DFN	230	1249	1302	115	0
Totals	230	-	-	115	0
-	ATURE BAKE	AT 150 DEG C	1		<u>' </u>
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE		
QFN/DFN	127	1238	1249	88	0
Totals	127	-	-	88	0
HIGH TEMPER	ATURE BAKE	AT 175 DEG C			
PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE	NEWEST DATE	K DEVICE HRS	No. of FAILURES
		CODE	CODE		
QFN/DFN	154	1250	1302	77	0
Totals	154	-	-	77	0

(1) Assumes Activation Energy = 0.7 Electron Volts
(2) Failure Rate Equivalent to +55 °C, 60% Confidence Level =17.55 FITS
(3) Mean Time Between Failure in Years = 6503.03
Note: 1 FIT = 1 Failure in One Billion Hours.
Note 2: HAST, Temp Cycle & Thermal Shock are subjected to J-STD-020 MSL1 Preconditioning