



4/17/2012

RELIABILITY MONITOR REPORT
FOR

uDFN Package

MAXIM Integrated Products

120 San Gabriel Dr.
Sunnyvale, CA 94086

This Report was prepared by
Maxim Reliability Engineering

Summary:

The data in the tables that follow was generated as the result of an on-going Package Reliability Monitor. The specific assemblies included in this package monitor are:

ASSY SITE	PINS	PACKAGE	UTL	
HANA-AYT	6	uDFN (Pb-Free)	UTL	12 uTDFN (Pb-Free)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 29064 FITS: 3.9

The parameters used to calculate this failure rate are as follows:

Cf: 60% Ea: 0.7 Tu: 25 °C

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between 4/1/2011 and 3/31/2012.

Assembly Information:

Package Type: uDFN (Pb-Free)

Date Code Range: 1127 to 1127

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1127	MAX2659ELT+T	135C	1000 HRS	47	0	
HIGH TEMP OP LIFE	1127	MAX2659ELT+T	135C	1000 HRS	48	0	
HIGH TEMP OP LIFE	1127	MAX2659ELT+T	135C	1000 HRS	48	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1127	MAX2659ELT+T	150C	1000 HRS	77	0	
STORAGE LIFE	1127	MAX2659ELT+T	150C	1000 HRS	77	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAX2659ELT+T	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAX2659ELT+T	-65C TO 150C	1000 CYS	77	0	
Total:						0	

Assembly Information:

Package Type: uTDFN (Pb-Free)

Date Code Range: 1113 to 1113

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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HIGH TEMP OP LIFE 1113 MAX17710 125C, 5.5 VOLTS 240 HRS 48 0

Total: 0

FAILURE RATE: MTTF (YRS): 29064 FITS: 3.9