



5/9/2009

**RELIABILITY MONITOR REPORT
FOR**

MFN Dual Poly NPN Bipolar

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 Process Reliability Monitor. The specific products in this process monitor are:

MAX2102CWI+	MAX2130EUA+	MAX2130EUT+	MAX2208ECM+	MAX3790CCQ
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The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 39843** **FITS: 2.9**

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

Cf: 60% **Ea: 0.7** **Tu: 25 °C**

The reliability data follows and in this section is the detailed reliability data by stress. The reliability data section includes the latest data available. This report covers data between 1/1/2008 and 12/31/2008.

Process Information:

Process Description: MFN Dual Poly NPN Bipolar

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0724	MAX3790CCQ	135C	1000 HRS	77	0	NIUFA3177A
HIGH TEMP OP LIFE	0730	MAX2102CWI+	135C	1000 HRS	44	0	NJKAPQ001Q3
HIGH TEMP OP LIFE	0740	MAX2208ECM+	135C	408 HRS	79	0	N273EA383BD
HIGH TEMP OP LIFE	0740	MAX2208ECM+	135C	620 HRS	79	0	N273EA495BB
HIGH TEMP OP LIFE	0814	MAX2130EUT+	135C	1000 HRS	35	0	N3OAD3004J#
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0740	MAX2208ECM+	150C	500 HRS	120	0	N273EA383B
STORAGE LIFE	0740	MAX2208ECM+	150C	500 HRS	120	0	N273EA495B
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0724	MAX3790CCQ	-65C TO 150C	1000 CYS	77	0	NIUFA3177A
TEMP CYCLE, 5' RAMP, 10' DWELL	0740	MAX2208ECM+	-65C TO 150C	1000 CYS	80	0	N273EA383B#
TEMP CYCLE, 5' RAMP, 10' DWELL	0740	MAX2208ECM+	-65C TO 150C	1000 CYS	80	0	N273EA495B#
TEMP CYCLE, 5' RAMP, 10' DWELL	0814	MAX2130EUA+	-65C TO 150C	1000 CYS	80	0	N3OAD3004J#
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	0730	MAX2102CWI+	85 C/85% R.H.	1000 HRS	42	0	NJKAPQ001Q1
MOISTURE SOAK	0730	MAX2102CWI+	85 C/85% R.H.	1000 HRS	45	0	NJKAPQ001Q2
MOISTURE SOAK	0730	MAX2102CWI+	85 C/85% R.H.	1000 HRS	42	0	NJKAPQ001Q3
					Total:	0	

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