



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+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:**                      **MTTF (YRS): 936**                      **FITS: 122.0**

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 and

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**Process Information:**

Process Description:                      MFN Dual Poly NPN Bipolar

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0814	MAX2130EUT+	135C	1000 HRS	35	0	N3OAD3004J#
<b>Total:</b>						<b>0</b>	

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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#
<b>Total:</b>						<b>0</b>	

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**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
<b>Total:</b>						<b>0</b>	

**FAILURE RATE:**                      **MTTF (YRS): 936**                      **FITS: 122.0**