



4/8/2009

**RELIABILITY MONITOR REPORT
FOR**

MFN Dual Poly 0.8 μ m CMOS

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:

MAX2116UTL+	MAX2118UTL	MAX2118UTL+	MAX2605EUT+	MAX2606EUT
MAX2606EUT+	MAX2607EUT+			

The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 52321** **FITS: 2.2**

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 7/1/2007 and 6/30/2008 .

Process Information:

Process Description: MFN Dual Poly 0.8µm CMOS

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0632	MAX2606EUT	135C	1000 HRS	54	0	N7DCF3049C#
HIGH TEMP OP LIFE	0728	MAX2605EUT+	135C	1000 HRS	75	0	N7DBFZ043B#
HIGH TEMP OP LIFE	0728	MAX2605EUT+	135C	1000 HRS	75	0	N7DBFZ043B#
HIGH TEMP OP LIFE	0803	MAX2116UTL+	135C	500 HRS	80	0	ND71L35C0A
HIGH TEMP OP LIFE	0803	MAX2116UTL+	135C	1000 HRS	80	0	ND71L35C0A
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0728	MAX2605EUT+	150C	1000 HRS	77	0	N7DBFZ043B#
STORAGE LIFE	0728	MAX2605EUT+	150C	1000 HRS	77	0	N7DBFZ043B#
STORAGE LIFE	0803	MAX2116UTL+	150C	1000 HRS	80	0	ND71L35C0A
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	074	MAX2606EUT+	-65C TO 150C	1000 CYS	80	0	N7DCFA058C#
TEMP CYCLE, 5' RAMP, 10' DWELL	074	MAX2606EUT+	-65C TO 150C	1000 CYS	80	0	N7DCFA058C#
TEMP CYCLE, 5' RAMP, 10' DWELL	0744	MAX2118UTL	-65C TO 150C	500 CYS	80	0	ND72LA3C2B
TEMP CYCLE, 5' RAMP, 10' DWELL	0803	MAX2116UTL+	-65C TO 150C	500 CYS	80	0	ND71L35C0A
TEMP CYCLE, 5' RAMP, 10' DWELL	0803	MAX2116UTL+	-65C TO 150C	1000 CYS	80	0	ND71L35C0
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	0728	MAX2605EUT+	130C, 85% R.H.	96 HRS	77	0	N7DBFZ043B#
BIASED MOISTURE	0728	MAX2605EUT+	130C, 85% R.H.	96 HRS	77	0	N7DBFZ043B#
BIASED MOISTURE	0744	MAX2118UTL	130C, 85% R.H.	100 HRS	48	0	ND72LA3C2B
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	0746	MAX2606EUT+	130C, 85% R.H.	96 HRS	80	0	N7DCFA058C#
MOISTURE SOAK	0746	MAX2606EUT+	130C, 85% R.H.	96 HRS	80	0	N7DCFA058C#
Total:						0	

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