



4/20/2008

**RELIABILITY MONITOR REPORT  
FOR**

**MFN SiGe HBT 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:

MAX2027EUP	MAX2027EUP+	MAX2140ETH	MAX2140ETH+	MAX2500BELM
MAX2538ETI+	MAX2680EUT+	MAX2680EUT+T	MAX3741ETE+	MAX3801UGG

The calculated failure rate for devices using this process is:

**FAILURE RATE:                    MTTF (YRS): 202308                    FITS: 0.6**

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 4/1/2007 and 3/31/2008 .

**Process Information:**

Process Description:                    MFN SiGe HBT CMOS

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO	
HIGH TEMP OP LIFE		MAX3741ETE+	135C, 5.25V	1000 HRS	45	0		
		MAX2680EUT+	135C, 5.25V	1000 HRS	79	0		
		MAX2680EUT+T	135C, 5.25V	1000 HRS	77	0		
		MAX2027EUP+	135C, 5.25V	1000 HRS	48	0		
		MAX2500BELM#G42	135C, 5.25V	1000 HRS	42			
		MAX2027EUP	135C, 5.25V	1000 HRS	45	0		
		MAX3801UGG	135C, 5.25V	1000 HRS	80	0		
		MAX2680EUT+T	135C, 5.25V	1000 HRS	80	0		
		MAX3741ETE+	135C, 5.25V	1000 HRS	45	0		
		MAX2538ETI+	135C, 5.25V	1000 HRS	45	0		
		MAX3741ETE+	135C, 5.25V	1000 HRS	45	0		
			135C, 5.25V	1000 HRS	45	0		
			135C, 5.25V	1000 HRS	45	0		
		MAX2140ETH+	135C, 5.25V	1000 HRS	78	0		
		MAX2140ETH	135C, 5.25V	1000 HRS	78	0		
		MAX2140ETH+	135C, 5.25V	1000 HRS	78	0		
		MAX2538ETI+	135C, 5.25V	1000 HRS	44	0		
		MAX3741ETE+	135C, 5.25V	1000 HRS	45	0		
				<b>Total:</b>			<b>0</b>	

**FAILURE RATE:                    MTTF (YRS): 202308                    FITS: 0.6**