

10/23/2014



**RELIABILITY MONITOR REPORT
FOR**

MFN Complementary BiCMOS (CB50)

MAXIM INTEGRATED

**160 RIO ROBLES
SAN JOSE, CA 95134**

**This Report was prepared by
MAXIM INTEGRATED 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:

MAX3646ETG+	MAX3738ETG+	MAX3747AEUB
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 49387 QUANTITY: 560 FAILS: 0 FITS: 2.3

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 10/1/2013 and 9/30/2014 .

Process Information:

Process Description: MFN Complementary BiCMOS (CB50)

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1332	MAX3738ETG+	135°C	192 HRS	80	0	JAMI63135AA
HIGH TEMP OP LIFE	1332	MAX3738ETG+	135°C	500 HRS	80	0	JAMI63155AA
HIGH TEMP OP LIFE	1333	MAX3738ETG+	135°C	500 HRS	80	0	JAMI63156BA
HIGH TEMP OP LIFE	1338	MAX3738ETG+	135°C	500 HRS	80	0	JJR1A2119BA
HIGH TEMP OP LIFE	1341	MAX3747AEUB+	135°C	500 HRS	80	0	JHDZE2111Z
HIGH TEMP OP LIFE	1347	MAX3646ETG+	135°C	500 HRS	80	0	JJR0J2167UA
HIGH TEMP OP LIFE	1348	MAX3646ETG+	135°C	500 HRS	80	0	JJR0J2168AA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1411	MAX3646ETG+	-65C TO +150C (Condition C)	1000 CYS	79	0	JJR0J2171A
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1411	MAX3646ETG+	130C, 85% R.H.	100 HRS	80	0	JJR0J2171A
Total:						0	

FAILURE RATE: MTTF (YRS): 49387 QUANTITY: 560 FAILS: 0 FITS: 2.3