

10/27/2017



**RELIABILITY MONITOR REPORT  
FOR**

**MFN 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+	MAX3728ACTE	MAX3738ETG+	MAX3747AEUB	MAX3748HETE
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 61816    QUANTITY: 319    FAILS: 0    FITS: 1.8**

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 7/1/2017 and 9/30/2017 .

**Process Information:**

Process Description:            MFN CB50

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1636	MAX3747AEUB+	135°C	1000 HRS	80	0	JAPO33168DB
HIGH TEMP OP LIFE	1641	MAX3738ETG+	135°C	1000 HRS	80	0	JAMI6A237BX
HIGH TEMP OP LIFE	1701	MAX3748HETE+	135°C	1000 HRS	49	0	JAPL13065CD
HIGH TEMP OP LIFE	1701	MAX3748HETE+	135°C	1000 HRS	30	0	JAPL13065CD
HIGH TEMP OP LIFE	1720	MAX3728ACTE+	135°C	1000 HRS	46	0	JAOY63082EX
HIGH TEMP OP LIFE	1720	MAX3728ACTE+	135°C	1000 HRS	34	0	JAOY63082EX
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1347	MAX3646ETG+	150°C	1000 HRS	80	0	JJR0JA167U
STORAGE LIFE	1636	MAX3747AEUB+	150°C	1000 HRS	80	0	JAPO33168DB
STORAGE LIFE	1641	MAX3738ETG+	150°C	1000 HRS	80	0	JAMI6A237BX
STORAGE LIFE	1701	MAX3748HETE+	150°C	1000 HRS	80	0	JAPL13065CD
STORAGE LIFE	1720	MAX3728ACTE+	130C, 85%	96 HRS	80	0	JAOY63082EX
STORAGE LIFE	1720	MAX3728ACTE+	150°C	1000 HRS	80	0	JAOY63082EX
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1347	MAX3646ETG+	-65C TO +150C (Condition C)	1000 CYS	80	0	JJR0JA167U

TEMP CYCLE, 5' RAMP, 10' DWELL	1636	MAX3747AEUB+	-65C TO +150C (Condition C)	1000	CYS	80	0	JAPO33168DB
TEMP CYCLE, 5' RAMP, 10' DWELL	1641	MAX3738ETG+	-65C TO +150C (Condition C)	1000	CYS	80	0	JAMI6A237BX
TEMP CYCLE, 5' RAMP, 10' DWELL	1701	MAX3748HETE+	-65C TO +150C (Condition C)	1000	CYS	80	0	JAPL13065CD
TEMP CYCLE, 5' RAMP, 10' DWELL	1720	MAX3728ACTE+	-65C TO +150C (Condition C)	1000	CYS	79	0	JAQY63082EX
<b>Total:</b>							<b>0</b>	

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**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1636	MAX3747AEUB+	130C, 85%	96	HRS	79	0
BIASED MOISTURE	1641	MAX3738ETG+	130C, 85%	96	HRS	80	0
BIASED MOISTURE	1701	MAX3748HETE+	130C, 85%	96	HRS	80	0
<b>Total:</b>						<b>0</b>	

**FAILURE RATE:      MTTF (YRS): 61816      QUANTITY: 319      FAILS: 0      FITS: 1.8**