

1/24/2019



**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:

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

**FAILURE RATE: MTTF (YRS): 66467      QUANTITY: 383      FAILS: 0      FITS: 1.7**

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 1/1/2019 and 12/31/2018.

**Process Information:**

Process Description:      MFN CB50

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1731	MAX3748HETE+	135°C	1000 HRS	31	0	JAPL13071AB
HIGH TEMP OP LIFE	1739	MAX3738ETG+	135°C	1000 HRS	80	0	JAMI63340AX
HIGH TEMP OP LIFE	1807	MAX3738ETG+	135°C	500 HRS	80	0	JAMI63344AX
HIGH TEMP OP LIFE	1821	MAX3747AEUB+	125°C	1000 HRS	80	0	JAPO33191DA
HIGH TEMP OP LIFE	1832	MAX3728ACTE+	125°C	1000 HRS	80	0	JAQY63100BX
HIGH TEMP OP LIFE	1832	MAX3728ACTE+	125°C	1000 HRS	32	0	JAQY63100BX
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1807	MAX3738ETG+	150°C	500 HRS	80	0	JAMI63344AX
STORAGE LIFE	1821	MAX3747AEUB+	150°C	1000 HRS	80	0	JAPO33191DA
STORAGE LIFE	1832	MAX3728ACTE+	150°C	1000 HRS	32	0	JAQY63100BX
<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	1739	MAX3738ETG+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAMI63340AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1807	MAX3738ETG+	-65C TO +150C (Condition C)	500 CYS	80	0	JAMI63344AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1821	MAX3747AEUB+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAPO33191DA

TEMP CYCLE, 5' RAMP, 10' DWELL	1832	MAX3728ACTE+	-65C TO +150C (Condition C)	1000	CYS	80	0	JA0Y63100BX
<b>Total:</b>							<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1739	MAX3738ETG+	85 C/85% R.H.	96	HRS	80	0	JAMI63340AX
BIASED MOISTURE	1832	MAX3728ACTE+	130C, 85% R.H.	96	HRS	80	0	JA0Y63100BX
<b>Total:</b>							<b>0</b>	
<b>FAILURE RATE:</b>	<b>MTTF (YRS): 66467</b>		<b>QUANTITY: 383</b>	<b>FAILS: 0</b>		<b>FITS: 1.7</b>		