

10/27/2017



**RELIABILITY MONITOR REPORT  
FOR**

**MFN MB10**

**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:

MAX2150ETI+	MAX2607EUT+	MAX2900ETI+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 64142    QUANTITY: 351    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 MB10

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1037	MAX2607EUT+	135°C	1000 HRS	30	0	N7DDF3316CX
HIGH TEMP OP LIFE	1630	MAX2900ETI+	135°C	1000 HRS	80	0	N070G3121D
HIGH TEMP OP LIFE	1638	MAX2900ETI+	135°C	1000 HRS	80	0	N070GA125EF
HIGH TEMP OP LIFE	1703	MAX2150ETI+	135°C	1000 HRS	48	0	N9D0CA076BA
HIGH TEMP OP LIFE	1703	MAX2150ETI+	135°C	1000 HRS	33	0	N9D0CA076BA
HIGH TEMP OP LIFE	1716	MAX2900ETI+	135°C	1000 HRS	80	0	N070G3119DA
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1623	MAX2900ETI+	150°C	1000 HRS	80	0	N070G3121D
STORAGE LIFE	1638	MAX2900ETI+	150°C	1000 HRS	80	0	N070GA125EF
STORAGE LIFE	1703	MAX2150ETI+	150°C	1000 HRS	80	0	N9D0CA076BA
STORAGE LIFE	1716	MAX2900ETI+	150°C	1000 HRS	80	0	N070G3119DA
<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	1623	MAX2900ETI+	-65C TO +150C (Condition C)	1000 CYS	80	0	N070G3121D
TEMP CYCLE, 5' RAMP, 10' DWELL	1638	MAX2900ETI+	-65C TO +150C (Condition C)	1000 CYS	80	0	N070GA125EF

TEMP CYCLE, 5' RAMP, 10' DWELL	1703	MAX2150ETI+	-65C TO +150C (Condition C)	1000	CYS	80	0	N9D0CA076BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1716	MAX2900ETI+	-65C TO +150C (Condition C)	1000	CYS	80	0	N070G3119DA
<b>Total:</b>							<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1623	MAX2900ETI+	130C, 85%	96	HRS	42	0 N070G3121D
BIASED MOISTURE	1623	MAX2900ETI+	130C, 85%	96	HRS	38	0 N070G3121D
BIASED MOISTURE	1638	MAX2900ETI+	130C, 85%	96	HRS	40	0 N070GA125EF
BIASED MOISTURE	1638	MAX2900ETI+	130C, 85%	96	HRS	40	0 N070GA125EF
BIASED MOISTURE	1703	MAX2150ETI+	130C, 85%	96	HRS	40	0 N9D0CA076BA
BIASED MOISTURE	1703	MAX2150ETI+	130C, 85%	96	HRS	40	0 N9D0CA076BA
BIASED MOISTURE	1716	MAX2900ETI+	130C, 85%	96	HRS	80	0 N070G3119DA
<b>Total:</b>							<b>0</b>
<b>FAILURE RATE:</b>	<b>MTTF (YRS): 64142</b>		<b>QUANTITY: 351</b>	<b>FAILS: 0</b>		<b>FITS: 1.8</b>	