

1/24/2019



**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+T	MAX2900ETI+
-------------	--------------	-------------

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 48252 QUANTITY: 249 FAILS: 0 FITS: 2.4

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 MB10

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1746	MAX2900ETI+	135°C	1000 HRS	80	0	N070GA133CA
HIGH TEMP OP LIFE	1806	MAX2150ETI+	135°C	1000 HRS	47	0	N9D0CA076DA
HIGH TEMP OP LIFE	1806	MAX2150ETI+	125°C	1000 HRS	42	0	N9D0CA076DA
HIGH TEMP OP LIFE	1820	MAX2900ETI+	125°C	1000 HRS	80	0	N070G3138DA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1746	MAX2900ETI+	150°C	1000 HRS	80	0	N070GA133CA
STORAGE LIFE	1820	MAX2900ETI+	150°C	1000 HRS	80	0	N070G3138DA
STORAGE LIFE	1833	MAX2607EUT+T	150°C	1000 HRS	80	0	N7DDFA202CB
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1746	MAX2900ETI+	-65C TO +150C (Condition C)	1000 CYS	80	0	N070GA133CA
TEMP CYCLE, 5' RAMP, 10' DWELL	1806	MAX2150ETI+	-65C TO +150C (Condition C)	1000 CYS	80	0	N9D0CA076DA
TEMP CYCLE, 5' RAMP, 10' DWELL	1820	MAX2900ETI+	-65C TO +150C (Condition C)	1000 CYS	80	0	N070G3138DA
TEMP CYCLE, 5' RAMP, 10' DWELL	1833	MAX2607EUT+T	-65C TO +150C (Condition C)	1000 CYS	80	0	N7DDFA202CB

Total: 0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1746	MAX2900ETI+	85 C/85% R.H.	96 HRS	40	0	N070GA133CA
BIASED MOISTURE	1746	MAX2900ETI+	85 C/85% R.H.	96 HRS	40	0	N070GA133CA
BIASED MOISTURE	1806	MAX2150ETI+	130C, 85% R.H.	96 HRS	39	0	N9D0CA076DA
BIASED MOISTURE	1806	MAX2150ETI+	130C, 85% R.H.	96 HRS	39	0	N9D0CA076DA
BIASED MOISTURE	1833	MAX2607EUT+T	130C, 85% R.H.	96 HRS	80	0	N7DDFA202CB

Total: 0

FAILURE RATE: MTTF (YRS): 48252 QUANTITY: 249 FAILS: 0 FITS: 2.4