

1/24/2019



**RELIABILITY MONITOR REPORT  
FOR**

**San Antonio EB8**

**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:

MAX16046ETN+	MAX16047ETN+
--------------	--------------

The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 29455    QUANTITY: 192    FAILS: 0    FITS: 3.9**

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 10/1/2018 and 12/31/2018.

**Process Information:**

Process Description:            San Antonio EB8

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1726	MAX16047ETN+	135°C	1000 HRS	48	0	TFDZCA177AA
HIGH TEMP OP LIFE	1726	MAX16047ETN+	135°C	1000 HRS	32	0	TFDZCA177AA
HIGH TEMP OP LIFE	1740	MAX16046ETN+	135°C	500 HRS	80	0	TFDZCA193AA
HIGH TEMP OP LIFE	1740	MAX16046ETN+	135°C	1000 HRS	32	0	TFDZCA193AA
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1740	MAX16046ETN+	150°C	1000 HRS	80	0	TFDZCA193AA
STORAGE LIFE	1821	MAX16047ETN+	150°C	500 HRS	80	0	TFDZCA217A
<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	1740	MAX16046ETN+	-65C TO +150C (Condition C)	1000 CYS	80	0	TFDZCA193AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1821	MAX16047ETN+	-65C TO +150C (Condition C)	1000 CYS	80	0	TFDZCA217A
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1726	MAX16047ETN+	130C, 85% R.H.	96 HRS	40	0	TFDZCA177AA
BIASED MOISTURE	1740	MAX16046ETN+	85 C/85% R.H.	96 HRS	40	0	TFDZCA193AA

BIASED MOISTURE	1740	MAX16046ETN+	85 C/85% R.H.	96	HRS	40	0	TFDZCA193AA
BIASED MOISTURE	1821	MAX16047ETN+	130C, 85% R.H.	96	HRS	40	0	TFDZCA217A
BIASED MOISTURE	1821	MAX16047ETN+	130C, 85% R.H.	96	HRS	40	0	TFDZCA217A
BIASED MOISTURE	1821	MAX16047ETN+	130C, 85% R.H.	1000	HRS	32	0	TFDZCA217A

**Total:** 0

**FAILURE RATE:**    **MTTF (YRS): 29455**    **QUANTITY: 192**    **FAILS: 0**    **FITS: 3.9**