

1/24/2019



**RELIABILITY MONITOR REPORT
FOR**

MFN M6

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:

MAX691CWE+	MAX691EEWE+	MAX691EWE+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 31005 QUANTITY: 160 FAILS: 0 FITS: 3.7

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 M6

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1733	MAX691EWE+	135°C	1000 HRS	80	0	NPYADA0A8B
HIGH TEMP OP LIFE	1746	MAX691CWE+	135°C	1000 HRS	80	0	NPYADA1A9EB
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1746	MAX691EEWE+	150°C	1000 HRS	80	0	NPYADA0A5BB
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1746	MAX691EEWE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NPYADA0A5BB
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1746	MAX691EEWE+	85 C/85% R.H.	96 HRS	79	0	NPYADA0A5BB
Total:						0	

FAILURE RATE: MTTF (YRS): 31005 QUANTITY: 160 FAILS: 0 FITS: 3.7