

6/25/2020



**RELIABILITY MONITOR REPORT
FOR**

MFN M5

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:

MAX202ECE+	MAX202ECPE+	MAX253CSA+	MAX253ESA+	MAX845ESA+
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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 1/1/2020 and 3/31/2020 .

Process Information:

Process Description: MFN M5

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1912	MAX845ESA+	125°C	1000 HRS	80	0	NCVBCA3B5AX
HIGH TEMP OP LIFE	1917	MAX202ECPE+	125°C	1000 HRS	80	0	NDOBCA1W7BX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1835	MAX253CSA+	150°C	1000 HRS	78	0	NCVAC27A7CD
STORAGE LIFE	1912	MAX845ESA+	150°C	1000 HRS	80	0	NCVBCA3B5AX
STORAGE LIFE	1917	MAX202ECPE+	150°C	1000 HRS	80	0	NDOBCA1W7BX
STORAGE LIFE	1951	MAX253ESA+	150°C	1000 HRS	80	0	NCVACA6B5CX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1912	MAX845ESA+	-65C TO +150C (Condition C)	500 CYS	80	0	NCVBCA3B5AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1917	MAX202ECPE+	-40C TO +125C (Condition G)	1000 CYS	80	0	NDOBCA1W7BX
TEMP CYCLE, 5' RAMP, 10' DWELL	1951	MAX253ESA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NCVACA6B5CX
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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BIASED MOISTURE	1835	MAX253CSA+	130C, 85% R.H.	96	HRS	80	0	NCVAC27A7CD
BIASED MOISTURE	1912	MAX845ESA+	130C, 85% R.H.	96	HRS	80	0	NCVBCA3B5AX
BIASED MOISTURE	1917	MAX202ECPE+	130C, 85% R.H.	96	HRS	80	0	NDOBCA1W7BX
BIASED MOISTURE	1951	MAX253ESA+	130C, 85% R.H.	96	HRS	80	0	NCVACA6B5CX

Total: **0**

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