

1/24/2019



**RELIABILITY MONITOR REPORT
FOR**

MFN S3

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:

MAX125CEAX+	MAX4581EUE+	MAX4582CUE+	MAX6250AESA	MAX6350ESA+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 108130 QUANTITY: 558 FAILS: 0 FITS: 1.1

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: MFN S3

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1748	MAX4581EUE+	135°C	1000 HRS	80	0	NADG7A8A4CX
HIGH TEMP OP LIFE	1803	MAX4582CUE+	135°C	1000 HRS	79	0	NADG838A7CX
HIGH TEMP OP LIFE	1804	MAX4582CUE+	125°C	1000 HRS	80	0	NADG838A7DX
HIGH TEMP OP LIFE	1820	MAX6350ESA+	125°C	1000 HRS	80	0	NACQ32426B
HIGH TEMP OP LIFE	1820	MAX4581EUE+	125°C	1000 HRS	79	0	NADG720B4A
HIGH TEMP OP LIFE	1829	MAX125CEAX+	125°C	1000 HRS	80	0	NBPZ62621A
HIGH TEMP OP LIFE	1837	MAX4581EUE+	125°C	1000 HRS	80	0	NADG7A3B0AA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1748	MAX4581EUE+	150°C	500 HRS	80	0	NADG7A8A4CX
STORAGE LIFE	1803	MAX4582CUE+	150°C	1000 HRS	80	0	NADG838A7CX
STORAGE LIFE	1804	MAX4582CUE+	150°C	1000 HRS	80	0	NADG838A7DX
STORAGE LIFE	1837	MAX4581EUE+	150°C	1000 HRS	80	0	NADG7A3B0AA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1748	MAX4581EUE+	-65C TO +150C (Condition C)	500 CYS	80	0	NADG7A8A4CX
TEMP CYCLE, 5' RAMP, 10' DWELL	1803	MAX4582CUE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NADG838A7CX

TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX4582CUE+	-65C TO +150C (Condition C)	1000	CYS	80	0	NADG838A7DX
TEMP CYCLE, 5' RAMP, 10' DWELL	1837	MAX4581EUE+	-65C TO +150C (Condition C)	1000	CYS	80	0	NADG7A3B0AA
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1727	MAX6250AESA+	130C, 85% R.H.	96 HRS	79	0	NACQ3A389AC	
BIASED MOISTURE	1748	MAX4581EUE+	85 C/85% R.H.	96 HRS	78	0	NADG7A8A4CX	
BIASED MOISTURE	1803	MAX4582CUE+	130C, 85% R.H.	96 HRS	78	0	NADG838A7CX	
BIASED MOISTURE	1837	MAX4581EUE+	130C, 85% R.H.	96 HRS	77	0	NADG7A3B0AA	
Total:							0	
FAILURE RATE:	MTTF (YRS): 108130		QUANTITY: 558		FAILS: 0		FITS: 1.1	