

6/25/2020



**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:

MAX4583CUE+	MAX604ESA+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 9185 QUANTITY: 158 FAILS: 0 FITS: 12.4

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 1/1/2020 and 3/31/2020 .

Process Information:

Process Description: MFN S3

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1913	MAX4583CUE+	125°C	100 HRS	79	0	NADG9A6B3I
HIGH TEMP OP LIFE	1924	MAX604ESA+	125°C	500 HRS	79	0	NDNBFA833CX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1913	MAX4583CUE+	150°C	1000 HRS	80	0	NADG9A6B3I
STORAGE LIFE	1924	MAX604ESA+	150°C	1000 HRS	80	0	NDNBFA833CX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1913	MAX4583CUE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NADG9A6B3I
TEMP CYCLE, 5' RAMP, 10' DWELL	1924	MAX604ESA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NDNBFA833CX
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1913	MAX4583CUE+	130C, 85% R.H.	96 HRS	78	0	NADG9A6B3I
BIASED MOISTURE	1924	MAX604ESA+	130C, 85% R.H.	96 HRS	79	0	NDNBFA833CX
Total:						0	

FAILURE RATE:

MTTF (YRS): 9185

QUANTITY: 158

FAILS: 0

FITS: 12.4