

6/25/2020



**RELIABILITY MONITOR REPORT
FOR**

MFN GST20

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:

MAX2308ETI+	MAX3645EEE+	MAX3738ETG+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 15503 QUANTITY: 80 FAILS: 0 FITS: 7.4

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 GST20

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1920	MAX3645EEE+	125°C	1000 HRS	48	0	NNL0AA284A
HIGH TEMP OP LIFE	1920	MAX3645EEE+	125°C	1000 HRS	32	0	NNL0AA284A
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1902	MAX2308ETI+	150°C	1000	80	0	NX9BFA351AA
STORAGE LIFE	1920	MAX3645EEE+	150°C	1000 HRS	80	0	NNL0AA284A
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1902	MAX2308ETI+	-65C TO +150C (Condition C)	1000 CYS	80	0	NX9BFA351AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1920	MAX3645EEE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NNL0AA284A
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1902	MAX2308ETI+	130C, 85% R.H.	96 HRS	80	0	NX9BFA351AA
BIASED MOISTURE	1920	MAX3645EEE+	130C, 85% R.H.	96 HRS	79	0	NNL0AA284A
Total:						0	

FAILURE RATE: **MTTF (YRS): 15503** **QUANTITY: 80** **FAILS: 0** **FITS: 7.4**