

1/24/2019



**RELIABILITY MONITOR REPORT
FOR**

MFN GST40

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:

MAX12000ETB+	MAX2021ETX+	MAX2058ETL+	MAX3815CCM+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 54259 QUANTITY: 320 FAILS: 0 FITS: 2.1

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 1/1/2019 and 12/31/2018.

Process Information:

Process Description: MFN GST40

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1731	MAX2021ETX+	135°C	1000 HRS	32	0	NZF0AA139AA
HIGH TEMP OP LIFE	1741	MAX3815CCM+	135°C	500 HRS	48	0	NXQ0AA443CB
HIGH TEMP OP LIFE	1741	MAX3815CCM+	135°C	500 HRS	32	0	NXQ0AA443CB
HIGH TEMP OP LIFE	1802	MAX12000ETB+	135°C	1000 HRS	80	0	NZD0AA058BA
HIGH TEMP OP LIFE	1804	MAX2058ETL+	125°C	1000 HRS	48	0	NT40AA223GA
HIGH TEMP OP LIFE	1804	MAX2058ETL+	125°C	1000 HRS	80	0	NT40AA223GB
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1741	MAX3815CCM+	150°C	1000 HRS	80	0	NXQ0AA443CB
STORAGE LIFE	1802	MAX12000ETB+	150°C	1000 HRS	80	0	NZD0AA058BA
STORAGE LIFE	1804	MAX2058ETL+	150°C	1000 HRS	80	0	NT40AA223GA
STORAGE LIFE	1804	MAX2058ETL+	150°C	1000 HRS	80	0	NT40AA223GB
STORAGE LIFE	1835	MAX3815CCM+	150°C	1000 HRS	79	0	NX6ACA154BA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1741	MAX3815CCM+	-65C TO +150C (Condition C)	1000 CYS	80	0	NXQ0AA443CB
TEMP CYCLE, 5' RAMP, 10' DWELL	1802	MAX12000ETB+	-65C TO +150C (Condition C)	1000 CYS	80	0	NZD0AA058BA

TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX2058ETL+	-65C TO +150C (Condition C)	1000	CYS	80	0	NT40AA223GA
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX2058ETL+	-65C TO +150C (Condition C)	1000	CYS	80	0	NT40AA223GB
TEMP CYCLE, 5' RAMP, 10' DWELL	1835	MAX3815CCM+	-65C TO +150C (Condition C)	1000	CYS	80	0	NX6ACA154BA
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1741	MAX3815CCM+	85 C/85% R.H.	96	HRS	40	0	NXQ0AA443CB
BIASED MOISTURE	1802	MAX12000ETB+	130C, 85% R.H.	96	HRS	80	0	NZD0AA058BA
BIASED MOISTURE	1835	MAX3815CCM+	130C, 85% R.H.	96	HRS	80	0	NX6ACA154BA
Total:							0	

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