

8/1/2019



**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:

MAX2235EUP+	MAX2308ETI+	MAX3645EEE+	MAX3738ETG+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 10658    QUANTITY: 55    FAILS: 0    FITS: 10.7**

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 4/1/2019 and 8/1/2019 .

**Process Information:**

Process Description:            MFN GST20

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1820	MAX3645EEE+	125°C	1000 HRS	55	0	NNL0A3130AA
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1820	MAX3645EEE+	150°C	1000 HRS	80	0	NNL0A3130AA
STORAGE LIFE	1902	MAX2308ETI+	150°C	1000	80	0	NX9BFA351AA
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1820	MAX3645EEE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NNL0A3130AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1832	MAX2235EUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	NW2AF3109AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1902	MAX2308ETI+	-65C TO +150C (Condition C)	1000 CYS	80	0	NX9BFA351AA
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1820	MAX3645EEE+	130C, 85% R.H.	96 HRS	80	0	NNL0A3130AA
BIASED MOISTURE	1832	MAX2235EUP+	130C, 85% R.H.	1000 HRS	80	0	NW2AF3109AA
BIASED MOISTURE	1832	MAX2235EUP+	130C, 85% R.H.	96 HRS	80	0	NW2AF3109AA

BIASED MOISTURE	1902	MAX2308ETI+	130C, 85% R.H.	96	HRS	80	0	NX9BFA351AA
					<b>Total:</b>		<b>0</b>	
<b>FAILURE RATE:</b>		<b>MTTF (YRS): 10658</b>	<b>QUANTITY: 55</b>		<b>FAILS: 0</b>		<b>FITS: 10.7</b>	