

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN GST30

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:

MAX2640AUT+	MAX2640EUT+	MAX3726UTG+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 55809 QUANTITY: 288 FAILS: 0 FITS: 2.0

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 7/1/2017 and 9/30/2017 .

Process Information:

Process Description: MFN GST30

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1634	MAX3726UTG+	135°C	1000 HRS	48	0	NYR1CA357AX
HIGH TEMP OP LIFE	1642	MAX3726UTG+	135°C	1000 HRS	48	0	NYR1C3358AX
HIGH TEMP OP LIFE	1642	MAX3726UTG+	135°C	1000 HRS	32	0	NYR1C3358AX
HIGH TEMP OP LIFE	1647	MAX3726UTG+	135°C	1000 HRS	48	0	NYR1C3358BA
HIGH TEMP OP LIFE	1647	MAX3726UTG+	135°C	1000 HRS	32	0	NYR1C3358BA
HIGH TEMP OP LIFE	1710	MAX2640AUT+	135°C	1000 HRS	80	0	NT3BDA220EB
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1634	MAX3726UTG+	150°C	1000 HRS	80	0	NYR1CA357AX
STORAGE LIFE	1642	MAX3726UTG+	150°C	1000 HRS	80	0	NYR1C3358AX
STORAGE LIFE	1647	MAX3726UTG+	150°C	1000 HRS	80	0	NYR1C3358BA
STORAGE LIFE	1710	MAX2640AUT+	150°C	1000 HRS	80	0	NT3BDA220EB
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1546	MAX2640EUT+	-65C TO +150C (Condition C)	1000 CYS	80	0	NT3BD3211IA
TEMP CYCLE, 5' RAMP, 10' DWELL	1634	MAX3726UTG+	-65C TO +150C (Condition C)	1000 CYS	80	0	NYR1CA357AX

TEMP CYCLE, 5' RAMP, 10' DWELL	1642	MAX3726UTG+	-65C TO +150C (Condition C)	1000	CYS	80	0	NYR1C3358AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1647	MAX3726UTG+	-65C TO +150C (Condition C)	1000	CYS	80	0	NYR1C3358BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1710	MAX2640AUT+	-65C TO +150C (Condition C)	1000	CYS	80	0	NT3BDA220EB
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1634	MAX3726UTG+	130C, 85%	96	HRS	80	0 NYR1CA357AX
BIASED MOISTURE	1642	MAX3726UTG+	130C, 85%	96	HRS	80	0 NYR1C3358AX
BIASED MOISTURE	1647	MAX3726UTG+	130C, 85%	96	HRS	80	0 NYR1C3358BA
BIASED MOISTURE	1710	MAX2640AUT+	130C, 85%	96	HRS	80	0 NT3BDA220EB
Total:							0

FAILURE RATE: MTTF (YRS): 55809 QUANTITY: 288 FAILS: 0 FITS: 2.0