

1/24/2019



**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+	MAX3726UTG+	MAX6035AAUR
-------------	-------------	-------------

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 44376 QUANTITY: 269 FAILS: 0 FITS: 2.6

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 GST30

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1724	MAX3726UTG+	135°C	1000 HRS	32	0	NYR1CA365B
HIGH TEMP OP LIFE	1741	MAX2640AUT+T	135°C	1000 HRS	78	0	NT3BDA223CA
HIGH TEMP OP LIFE	1810	MAX2640AUT+T	135°C	1000 HRS	79	0	NT3BDA224DA
HIGH TEMP OP LIFE	1832	MAX2640AUT+T	125°C	500 HRS	80	0	NT3BD3226AB
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1741	MAX2640AUT+T	150°C	1000 HRS	80	0	NT3BDA223CA
STORAGE LIFE	1810	MAX2640AUT+T	150°C	1000 HRS	80	0	NT3BDA224DA
STORAGE LIFE	1832	MAX2640AUT+T	150°C	1000 HRS	78	0	NT3BD3226AB
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1741	MAX2640AUT+T	-65C TO +150C (Condition C)	1000 CYS	79	0	NT3BDA223CA
TEMP CYCLE, 5' RAMP, 10' DWELL	1810	MAX2640AUT+T	-65C TO +150C (Condition C)	1000 CYS	79	0	NT3BDA224DA
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX2640AUT+T	-65C TO +150C (Condition C)	500 CYS	78	0	NT3BDA225DB
TEMP CYCLE, 5' RAMP, 10' DWELL	1832	MAX2640AUT+T	-65C TO +150C (Condition C)	1000 CYS	80	0	NT3BD3226AB

Total: 0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1741	MAX2640AUT+T	85 C/85% R.H.	96 HRS	80	0	NT3BDA223CA
BIASED MOISTURE	1810	MAX2640AUT+T	130C, 85% R.H.	96 HRS	80	0	NT3BDA224DA

Total: 0

FAILURE RATE: MTTF (YRS): 44376 QUANTITY: 269 FAILS: 0 FITS: 2.6