

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN S3

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:

MAX125CEAX+	MAX186CEPP+	MAX4581EUE+	MAX603ESA+	MAX6250BESA
MAX6325CSA+				

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 95147 QUANTITY: 531 FAILS: 0 FITS: 1.2

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 S3

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1623	MAX186CEPP+	135°C	1000 HRS	79	0	NTKAL26B9A
HIGH TEMP OP LIFE	1623	MAX186CEPP+	135°C	1000 HRS	53	0	NTKAL26B9C
HIGH TEMP OP LIFE	1623	MAX603ESA+	135°C	500 HRS	80	0	NDNAF240A
HIGH TEMP OP LIFE	1628	MAX6325CSA+	135°C	1000 HRS	80	0	NACQ5A339BF
HIGH TEMP OP LIFE	1640	MAX6250BESA+	135°C	1000 HRS	80	0	NACQ3A349AX
HIGH TEMP OP LIFE	1701	MAX125CEAX+	135°C	1000 HRS	80	0	NKXAF A507BA
HIGH TEMP OP LIFE	1721	MAX4581EUE+	135°C	1000 HRS	79	0	NADG7A5A7EX
				Total:		0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1628	MAX6325CSA+	150°C	1000 HRS	80	0	NACQ5A339BF
STORAGE LIFE	1640	MAX6250BESA+	150°C	1000 HRS	80	0	NACQ3A349AX
STORAGE LIFE	1701	MAX125CEAX+	150°C	1000 HRS	80	0	NKXAF A507BA
STORAGE LIFE	1721	MAX4581EUE+	150°C	1000 HRS	80	0	NADG7A5A7EX
				Total:		0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1628	MAX6325CSA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NACQ5A339BF

TEMP CYCLE, 5' RAMP, 10' DWELL	1640	MAX6250BESA+	-65C TO +150C (Condition C)	1000	CYS	80	0	NACQ3A349AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1701	MAX125CEAX+	-65C TO +150C (Condition C)	1000	CYS	80	0	NKXAFA507BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1721	MAX4581EUE+	-65C TO +150C (Condition C)	1000	CYS	80	0	NADG7A5A7EX
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1628	MAX6325CSA+	130C, 85%	96	HRS	80	0 NACQ5A339BF
BIASED MOISTURE	1640	MAX6250BESA+	130C, 85%	96	HRS	80	0 NACQ3A349AX
BIASED MOISTURE	1701	MAX125CEAX+	130C, 85%	96	HRS	80	0 NKXAFA507BA
BIASED MOISTURE	1721	MAX4581EUE+	130C, 85%	96	HRS	78	0 NADG7A5A7EX
Total:							0
FAILURE RATE:	MTTF (YRS):	95147	QUANTITY:	531	FAILS:	0	FITS: 1.2