

7/10/2017



**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+	MAX3380EEUP+	MAX603ESA+	MAX6250BESA
MAX6325CSA+				

The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 95341 QUANTITY: 532 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 4/1/2017 and 6/30/2017 .

**Process Information:**

Process Description: MFN S3

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1618	MAX3380EEUP+	135°C	1000 HRS	80	0	N1M1CA169C
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	NKXAF507BA
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1618	MAX3380EEUP+	150°C	1000 HRS	80	0	N1M1CA169C
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	NKXAF507BA
<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	1618	MAX3380EEUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	N1M1CA169C

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
<b>Total:</b>							<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1618	MAX3380EEUP+	130C, 85%	100	HRS	80	0 N1M1CA169C
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
<b>Total:</b>							<b>0</b>
<b>FAILURE RATE:</b>	<b>MTTF (YRS): 95341</b>		<b>QUANTITY: 532</b>	<b>FAILS: 0</b>		<b>FITS: 1.2</b>	