

7/10/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN M6

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:

ICM7555IPA+	MAX237EWG+	MAX667ESA+	MAX691EWE+	MAX693MJE/88
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 46508 QUANTITY: 240 FAILS: 0 FITS: 2.5

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 M6

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1607	ICM7555IPA+	135°C	1000 HRS	80	0	NCAAAA060C
HIGH TEMP OP LIFE	1637	MAX691EWE+	135°C	1000 HRS	80	0	NPYADA0A0BC
HIGH TEMP OP LIFE	1705	MAX667ESA+	135°C	1000 HRS	80	0	NEVAQA3A3BX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1607	ICM7555IPA+	150°C	1000 HRS	80	0	NCAAAA060C
STORAGE LIFE	1627	MAX237EWG+	150°C	1000 HRS	80	0	NYCAHA2C8B
STORAGE LIFE	1637	MAX691EWE+	150°C	1000 HRS	80	0	NPYADA0A0BC
STORAGE LIFE	1705	MAX667ESA+	150°C	1000 HRS	80	0	NEVAQA3A3BX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1607	ICM7555IPA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NCAAAA060C
TEMP CYCLE, 5' RAMP, 10' DWELL	1614	MAX693MJE/883	-65C TO +150C (Condition C)	1000 CYS	80	0	NPYBDA522Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1615	MAX693MJE/883	-65C TO +150C (Condition C)	1000 CYS	80	0	NPYBDA522Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1615	MAX693MJE/883	-65C TO +150C (Condition C)	1000 CYS	80	0	NPYBDA522Q3

TEMP CYCLE, 5' RAMP, 10' DWELL	1627	MAX237EWG+	-65C TO +150C (Condition C)	1000	CYS	80	0	NYCAHA2C8B
TEMP CYCLE, 5' RAMP, 10' DWELL	1637	MAX691EWE+	-65C TO +150C (Condition C)	1000	CYS	80	0	NPYADA0A0BC
TEMP CYCLE, 5' RAMP, 10' DWELL	1705	MAX667ESA+	-65C TO +150C (Condition C)	1000	CYS	80	0	NEVAQA3A3BX
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1607	ICM7555IPA+	130C, 85%	100	HRS	80	0 NCAAAA060C
BIASED MOISTURE	1627	MAX237EWG+	130C, 85%	96	HRS	79	0 NYCAHA2C8B
BIASED MOISTURE	1637	MAX691EWE+	130C, 85%	1000	HRS	79	0 NPYADA0A0BC
BIASED MOISTURE	1705	MAX667ESA+	130C, 85%	100	HRS	79	0 NEVAQA3A3BX
Total:							0

FAILURE RATE: MTF (YRS): 46508 QUANTITY: 240 FAILS: 0 FITS: 2.5