

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN CB40

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:

MAX2034CTM+	MAX2077CTN+	MAX9972ACCS
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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 CB40

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1630	MAX2034CTM+	135°C	1000 HRS	48	0	NAEJ53025AE
HIGH TEMP OP LIFE	1632	MAX2077CTN+	135°C	1000 HRS	47	0	NPFZC3062AA
HIGH TEMP OP LIFE	1632	MAX2077CTN+	135°C	1000 HRS	33	0	NPFZC3062AA
HIGH TEMP OP LIFE	1650	MAX2077CTN+	135°C	1000 HRS	47	0	NPFZC3066AA
HIGH TEMP OP LIFE	1650	MAX2077CTN+	135°C	1000 HRS	33	0	NPFZC3066AA
HIGH TEMP OP LIFE	1719	MAX2034CTM+	135°C	1000 HRS	48	0	NAEJ53030CA
HIGH TEMP OP LIFE	1719	MAX2034CTM+	135°C	1000 HRS	32	0	NAEJ53030CA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1630	MAX2034CTM+	150°C	1000 HRS	80	0	NAEJ53025AE
STORAGE LIFE	1632	MAX2077CTN+	150°C	1000 HRS	80	0	NPFZC3062AA
STORAGE LIFE	1650	MAX2077CTN+	150°C	1000 HRS	80	0	NPFZC3066AA
STORAGE LIFE	1719	MAX2034CTM+	150°C	1000 HRS	80	0	NAEJ53030CA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1626	MAX9972ACCS+	-65C TO +150C (Condition C)	1000 CYS	80	0	NAAV13104B
TEMP CYCLE, 5' RAMP, 10' DWELL	1630	MAX2034CTM+	-65C TO +150C (Condition C)	1000 CYS	80	0	NAEJ53025AE

TEMP CYCLE, 5' RAMP, 10' DWELL	1632	MAX2077CTN+	-65C TO +150C (Condition C)	1000	CYS	80	0	NPFZC3062AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1650	MAX2077CTN+	-65C TO +150C (Condition C)	1000	CYS	80	0	NPFZC3066AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1719	MAX2034CTM+	-65C TO +150C (Condition C)	1000	CYS	80	0	NAEJ53030CA
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1630	MAX2034CTM+	130C, 85%	96	HRS	48	0 NAEJ53025AE
BIASED MOISTURE	1632	MAX2077CTN+	130C, 85%	96	HRS	80	0 NPFZC3062AA
BIASED MOISTURE	1650	MAX2077CTN+	130C, 85%	96	HRS	80	0 NPFZC3066AA
BIASED MOISTURE	1719	MAX2034CTM+	130C, 85%	96	HRS	52	0 NAEJ53030CA
BIASED MOISTURE	1719	MAX2034CTM+	130C, 85%	96	HRS	28	0 NAEJ53030CA
Total:						0	
FAILURE RATE:	MTTF (YRS): 55809		QUANTITY: 288	FAILS: 0		FITS: 2.0	