

1/24/2019



**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+	MAX5423ETA+	MAX9979KCTK
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 61235 QUANTITY: 316 FAILS: 0 FITS: 1.9

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 CB40

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1732	MAX2077CTN+	135°C	1000 HRS	38	0	NBRI53071NA
HIGH TEMP OP LIFE	1743	MAX2077CTN+	135°C	1000 HRS	39	0	NBRI53074AA
HIGH TEMP OP LIFE	1743	MAX2077CTN+	135°C	1000 HRS	39	0	NBRI53074AA
HIGH TEMP OP LIFE	1806	MAX5423ETA+	125°C	1000 HRS	42	0	TOE1FA008CA
HIGH TEMP OP LIFE	1821	MAX2034CTM+	125°C	1000 HRS	80	0	NAEJ53034AA
HIGH TEMP OP LIFE	1828	MAX9979KCTK+	125°C	1000 HRS	78	0	NERWHA384CX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1743	MAX2077CTN+	150°C	1000 HRS	80	0	NBRI53074AA
STORAGE LIFE	1806	MAX9979KCTK+	150°C	1000 HRS	80	0	NBJC03451AA
STORAGE LIFE	1821	MAX2034CTM+	150°C	500 HRS	80	0	NAEJ53034AA
STORAGE LIFE	1828	MAX9979KCTK+	150°C	1000 HRS	78	0	NERWHA384CX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1743	MAX2077CTN+	-65C TO +150C (Condition C)	500 CYS	80	0	NBRI53074AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1806	MAX9979KCTK+	-65C TO +150C (Condition C)	1000 CYS	80	0	NBJC03451AA

TEMP CYCLE, 5' RAMP, 10' DWELL	1821	MAX2034CTM+	-65C TO +150C (Condition C)	1000	CYS	80	0	NAEJ53034AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1828	MAX9979KCTK+	-65C TO +150C (Condition C)	1000	CYS	80	0	NERWHA384CX
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1743	MAX2077CTN+	85 C/85% R.H.	96	HRS	40	0 NBRI53074AA
BIASED MOISTURE	1743	MAX2077CTN+	85 C/85% R.H.	96	HRS	40	0 NBRI53074AA
BIASED MOISTURE	1806	MAX9979KCTK+	130C, 85% R.H.	96	HRS	80	0 NBJC03451AA
BIASED MOISTURE	1821	MAX2034CTM+	130C, 85% R.H.		HRS	80	0 NAEJ53034AA
BIASED MOISTURE	1828	MAX9979KCTK+	130C, 85% R.H.	96	HRS	80	0 NERWHA384CX
Total:							0
FAILURE RATE:	MTTF (YRS): 61235		QUANTITY: 316	FAILS: 0		FITS: 1.9	