

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN CB30

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:

MAX4003EUA+	MAX9144EUD+	MAX9933EUA+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 84683 QUANTITY: 476 FAILS: 0 FITS: 1.3

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 CB30

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1634	MAX9933EUA+	135°C	1000 HRS	80	0	NFSWBA032MA
HIGH TEMP OP LIFE	1641	MAX4003EUA+	135°C	1000 HRS	80	0	N9O3EA185AB
HIGH TEMP OP LIFE	1704	MAX9933EUA+	135°C	1000 HRS	80	0	NFSWBA035BC
HIGH TEMP OP LIFE	1717	MAX9144EUD+	135°C	1000 HRS	78	0	N21AB3119AX
HIGH TEMP OP LIFE	1726	MAX4003EUA+	135°C	1000 HRS	80	0	N9O3E2199A
HIGH TEMP OP LIFE	1727	MAX9144EUD+	135°C	500 HRS	78	0	N21AB2123A
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1634	MAX9933EUA+	150°C	1000 HRS	80	0	NFSWBA032MA
STORAGE LIFE	1641	MAX4003EUA+	150°C	1000 HRS	80	0	N9O3EA185AB
STORAGE LIFE	1704	MAX9933EUA+	150°C	1000 HRS	80	0	NFSWBA035BC
STORAGE LIFE	1717	MAX9144EUD+	150°C	1000 HRS	80	0	N21AB3119AX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1634	MAX9933EUA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NFSWBA032MA
TEMP CYCLE, 5' RAMP, 10' DWELL	1641	MAX4003EUA+	-65C TO +150C (Condition C)	1000 CYS	80	0	N9O3EA185AB

TEMP CYCLE, 5' RAMP, 10' DWELL	1704	MAX9933EUA+	-65C TO +150C (Condition C)	1000	CYS	80	0	NFSWBA035BC
TEMP CYCLE, 5' RAMP, 10' DWELL	1717	MAX9144EUD+	-65C TO +150C (Condition C)	1000	CYS	80	0	N21AB3119AX
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1620	MAX9144EUD+	130C, 85%	100	HRS	80	0 N21AB3111C
BIASED MOISTURE	1634	MAX9933EUA+	130C, 85%	96	HRS	80	0 NFSWBA032MA
BIASED MOISTURE	1641	MAX4003EUA+	130C, 85%	96	HRS	80	0 N9O3EA185AB
BIASED MOISTURE	1704	MAX9933EUA+	130C, 85%	96	HRS	80	0 NFSWBA035BC
BIASED MOISTURE	1717	MAX9144EUD+	130C, 85%	96	HRS	58	0 N21AB3119AX
BIASED MOISTURE	1717	MAX9144EUD+	130C, 85%	96	HRS	32	0 N21AB3119AX
Total:							0

FAILURE RATE: MTTF (YRS): 84683 QUANTITY: 476 FAILS: 0 FITS: 1.3