

1/24/2019



**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+	MAX9933BGUA	MAX9933EUA+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 38756 QUANTITY: 240 FAILS: 0 FITS: 2.9

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 CB30

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1744	MAX9933EUA+	135°C	1000 HRS	80	0	NFSWB4036HA
HIGH TEMP OP LIFE	1811	MAX4003EUA+	125°C	1000 HRS	80	0	N9O3EA209BA
HIGH TEMP OP LIFE	1811	MAX9933BGUA+	125°C	500 HRS	80	0	NFSWB3037CX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1744	MAX9933EUA+	150°C	1000 HRS	80	0	NFSWB4036HA
STORAGE LIFE	1801	MAX9933BGUA+	150°C	1000 HRS	80	0	NFSWB3037AA
STORAGE LIFE	1801	MAX9933BGUA+	150°C	1000 HRS	80	0	NFSWB3037AA
STORAGE LIFE	1811	MAX4003EUA+	150°C	1000 HRS	80	0	N9O3EA209BA
STORAGE LIFE	1811	MAX9933BGUA+	150°C	1000 HRS	80	0	NFSWB3037CX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1744	MAX9933EUA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NFSWB4036HA
TEMP CYCLE, 5' RAMP, 10' DWELL	1801	MAX9933BGUA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NFSWB3037AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1811	MAX4003EUA+	-65C TO +150C (Condition C)	500 CYS	80	0	N9O3EA209BA

TEMP CYCLE, 5' RAMP, 10' DWELL	1811	MAX9933BGUA+	-65C TO +150C (Condition C)	1000	CYS	80	0	NFSWB3037CX
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1744	MAX9933EUA+	85 C/85% R.H.	96	HRS	79	0 NFSWB4036HA
BIASED MOISTURE	1801	MAX9933BGUA+	130C, 85% R.H.	96	HRS	80	0 NFSWB3037AA
BIASED MOISTURE	1811	MAX9933BGUA+	130C, 85% R.H.	96	HRS	77	0 NFSWB3037CX
Total:							0
FAILURE RATE:	MTTF (YRS): 38756		QUANTITY: 240	FAILS: 0		FITS: 2.9	