

1/24/2019



**RELIABILITY MONITOR REPORT
FOR**

MFN BCD250

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:

MAX14802ECM	MAX14803CCM	MAX15013AAS	MAX4990ETD+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 46314 QUANTITY: 239 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 10/1/2018 and 12/31/2018.

Process Information:

Process Description: MFN BCD250

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1741	MAX4990ETD+	135°C	1000 HRS	79	0	NFVZC3025A
HIGH TEMP OP LIFE	1741	MAX14803CCM+	135°C	1000 HRS	80	0	NBMW23335AA
HIGH TEMP OP LIFE	1826	MAX14802ECM+	125°C	1000 HRS	80	0	NBMW1A368AX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1741	MAX14803CCM+	150°C	500 HRS	80	0	NBMW23335AA
STORAGE LIFE	1803	MAX14802ECM+	150°C	1000 HRS	80	0	NBMW1A332AA
STORAGE LIFE	1821	MAX15013AASA+	150°C	1000 HRS	80	0	NOP2BA351AX
STORAGE LIFE	1826	MAX14802ECM+	150°C	1000 HRS	80	0	NBMW1A368AX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1741	MAX14803CCM+	-65C TO +150C (Condition C)	1000 CYS	80	0	NBMW23335AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1803	MAX14802ECM+	-65C TO +150C (Condition C)	1000 CYS	80	0	NBMW1A332AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1821	MAX15013AASA+	-65C TO +150C (Condition C)	1000 CYS	78	0	NOP2BA351AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX14802ECM+	-65C TO +150C (Condition C)	1000 CYS	79	0	NBMW1A368AX

Total: 0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1741	MAX14803CCM+	85 C/85% R.H.	96 HRS	80	0	NBMW23335AA
BIASED MOISTURE	1803	MAX14802ECM+	130C, 85% R.H.	96 HRS	80	0	NBMW1A332AA
BIASED MOISTURE	1821	MAX15013AASA+	130C, 85% R.H.	HRS	80	0	NOP2BA351AX
BIASED MOISTURE	1826	MAX14802ECM+	130C, 85% R.H.	96 HRS	80	0	NBMW1A368AX

Total: 0

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