

10/27/2017



**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	MAX4810CTN+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 73637    QUANTITY: 353    FAILS: 0    FITS: 1.6**

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 BCD250

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1638	MAX15013AASA+	135°C	1000 HRS	80	0	NOP2BA300DX
HIGH TEMP OP LIFE	1642	MAX14803CCM+	135°C	750 HRS	80	0	NBMW23264CB
HIGH TEMP OP LIFE	1642	MAX4810CTN+	135°C	1000 HRS	33	0	NKUZBA211B
HIGH TEMP OP LIFE	1702	MAX14803CCM+	135°C	1000 HRS	80	0	NBMW2A284AB
HIGH TEMP OP LIFE	1707	MAX14802ECM+	135°C	1000 HRS	80	0	NBMW1A285AG
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1638	MAX15013AASA+	150°C	1000 HRS	80	0	NOP2BA300DX
STORAGE LIFE	1642	MAX4810CTN+	150°C	1000 HRS	80	0	NKUZBA211B
STORAGE LIFE	1702	MAX14803CCM+	150°C	1000 HRS	80	0	NBMW2A284AB
STORAGE LIFE	1707	MAX14802ECM+	150°C	1000 HRS	80	0	NBMW1A285AG
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1638	MAX15013AASA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NOP2BA300DX
TEMP CYCLE, 5' RAMP, 10' DWELL	1642	MAX4810CTN+	-65C TO +150C (Condition C)	1000 CYS	80	0	NKUZBA211B
TEMP CYCLE, 5' RAMP, 10' DWELL	1702	MAX14803CCM+	-65C TO +150C (Condition C)	1000 CYS	80	0	NBMW2A284AB

TEMP CYCLE, 5' RAMP, 10' DWELL	1707	MAX14802ECM+	-65C TO +150C (Condition C)	1000	CYS	80	0	NBMW1A285AG
						<b>Total:</b>	<b>0</b>	

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1638	MAX15013AASA+	130C, 85%	96	HRS	80	0	NOP2BA300DX
MOISTURE SOAK	1642	MAX4810CTN+	130C, 85%	96	HRS	80	0	NKUZBA211B
MOISTURE SOAK	1702	MAX14803CCM+	130C, 85%	96	HRS	80	0	NBMW2A284AB
MOISTURE SOAK	1707	MAX14802ECM+	130C, 85%	96	HRS	80	0	NBMW1A285AG
						<b>Total:</b>	<b>0</b>	

**FAILURE RATE:      MTTF (YRS): 73637      QUANTITY: 353      FAILS: 0      FITS: 1.6**