

1/24/2019



**RELIABILITY MONITOR REPORT  
FOR**

**MFN DM200**

**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:

MAX14808ETK+	MAX14908ETK+	MAX14988ETK+	MAX4936CTN+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 38175    QUANTITY: 237    FAILS: 0    FITS: 3.0**

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.

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**Process Information:**

Process Description:            MFN DM200

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1749	MAX14808ETK+	135°C	1000 HRS	80	0	JAHP52175M
HIGH TEMP OP LIFE	1817	MAX14988ETK+	125°C	1000 HRS	77	0	JBFR33048AA
HIGH TEMP OP LIFE	1832	MAX4936CTN+	125°C	500 HRS	80	0	JVWZD3035CX
<b>Total:</b>						<b>0</b>	

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**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1734	MAX14808ETK+	150°C	500 HRS	80	0	JAHP53155AB
STORAGE LIFE	1804	MAX14908ETK+	150°C	1000 HRS	80	0	JBKJ13027AA
STORAGE LIFE	1817	MAX14988ETK+	150°C	1000 HRS	80	0	JBFR33048AA
STORAGE LIFE	1832	MAX4936CTN+	150°C	1000 HRS	80	0	JVWZD3035CX
<b>Total:</b>						<b>0</b>	

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1734	MAX14808ETK+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAHP53155AB
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX14908ETK+	-65C TO +150C (Condition C)	1000 CYS	80	0	JBKJ13027AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1817	MAX14988ETK+	-65C TO +150C (Condition C)	1000 CYS	80	0	JBFR33048AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1832	MAX4936CTN+	-65C TO +150C (Condition C)	1000 CYS	78	0	JVWZD3035CX

**Total: 0**

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**TEMPERATURE HUMIDITY BIAS**

<b>DESCRIPTION</b>	<b>DATE CODE</b>	<b>TEST VEHICLE</b>	<b>CONDITION</b>	<b>READPOINT</b>	<b>QUANTITY</b>	<b>FAILS</b>	<b>LOT NO.</b>
BIASED MOISTURE	1734	MAX14808ETK+	85 C/85% R.H.	96 HRS	80	0	JAHP53155AB
BIASED MOISTURE	1804	MAX14908ETK+	130C, 85% R.H.	96 HRS	80	0	JBKJ13027AA
BIASED MOISTURE	1832	MAX4936CTN+	130C, 85% R.H.	96 HRS	80	0	JVWZD3035CX
				<b>Total:</b>		<b>0</b>	
<b>FAILURE RATE:</b>	<b>MTTF (YRS):</b>	<b>38175</b>	<b>QUANTITY:</b>	<b>237</b>	<b>FAILS:</b>	<b>0</b>	<b>FITS: 3.0</b>