

**6/25/2020**



**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+ |
|--------------|--------------|

The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 62204 QUANTITY: 321 FAILS: 0 FITS: 1.8**

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 1/1/2020 and 3/31/2020 .

**Process Information:**

Process Description: MFN DM200

**OPERATING LIFE**

| DESCRIPTION       | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS    | LOT NO.     |
|-------------------|-----------|--------------|-----------|-----------|----------|----------|-------------|
| HIGH TEMP OP LIFE | 1823      | MAX14908ETK+ | 125°C     | 1000 HRS  | 80       | 0        | JBKJ13036AA |
| HIGH TEMP OP LIFE | 1911      | MAX14808ETK+ | 125°C     | 1000 HRS  | 80       | 0        | JAHP5A243AA |
| HIGH TEMP OP LIFE | 1926      | MAX14908ETK+ | 125°C     | 1000 HRS  | 81       | 0        | JBKJ13068AX |
| HIGH TEMP OP LIFE | 1943      | MAX14808ETK+ | 125°C     | 1000 HRS  | 80       | 0        | JAHP54289   |
| <b>Total:</b>     |           |              |           |           |          | <b>0</b> |             |

**STORAGE LIFE**

| DESCRIPTION   | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS    | LOT NO.     |
|---------------|-----------|--------------|-----------|-----------|----------|----------|-------------|
| STORAGE LIFE  | 1823      | MAX14908ETK+ | 150°C     | 1000 HRS  | 80       | 0        | JBKJ13036AA |
| STORAGE LIFE  | 1911      | MAX14808ETK+ | 150°C     | 1000 HRS  | 78       | 0        | JAHP5A243AA |
| STORAGE LIFE  | 1943      | MAX14808ETK+ | 150°C     | 1000 HRS  | 80       | 0        | JAHP54289   |
| <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 | 1911      | MAX14808ETK+ | -65C TO +150C<br>(Condition C) | 1000 CYS  | 80       | 0        | JAHP5A243AA |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1926      | MAX14908ETK+ | -65C TO +150C<br>(Condition C) | 1000 CYS  | 80       | 0        | JBKJ13068AX |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1943      | MAX14808ETK+ | -65C TO +150C<br>(Condition C) | 1000 CYS  | 80       | 0        | JAHP54289   |
| <b>Total:</b>                  |           |              |                                |           |          | <b>0</b> |             |

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**TEMPERATURE HUMIDITY BIAS**

| DESCRIPTION     | DATE<br>CODE | TEST<br>VEHICLE | CONDITION      | READPOINT | QUANTITY | FAILS    | LOT<br>NO.  |
|-----------------|--------------|-----------------|----------------|-----------|----------|----------|-------------|
| BIASED MOISTURE | 1823         | MAX14908ETK+    | 130C, 85% R.H. | 96 HRS    | 80       | 0        | JBKJ13036AA |
| BIASED MOISTURE | 1911         | MAX14808ETK+    | 130C, 85% R.H. | 96 HRS    | 80       | 0        | JAHP5A243AA |
| <b>Total:</b>   |              |                 |                |           |          | <b>0</b> |             |

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**UNBIASED MOISTURE RESISTANCE**

| DESCRIPTION   | DATE<br>CODE | TEST<br>VEHICLE | CONDITION      | READPOINT | QUANTITY | FAILS    | LOT<br>NO. |
|---------------|--------------|-----------------|----------------|-----------|----------|----------|------------|
| MOISTURE SOAK | 1943         | MAX14808ETK+    | 130C, 85% R.H. | 96 HRS    | 80       | 0        | JAHP54289  |
| <b>Total:</b> |              |                 |                |           |          | <b>0</b> |            |

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