



5/9/2009

**RELIABILITY MONITOR REPORT
FOR**

MFN Dual Poly 0.8 μ m CMOS

MAXIM Integrated Products

**120 San Gabriel Dr.
Sunnyvale, CA 94086**

**This Report was prepared by
Maxim 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:

| | | | |
|-------------|-------------|-------------|-------------|
| MAX2070GTM+ | MAX2116UTL+ | MAX2606EUT+ | MAX2607EUT+ |
|-------------|-------------|-------------|-------------|

The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 20021** **FITS: 5.7**

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 1/1/2008 and 12/31/2008.

Process Information:

Process Description: MFN Dual Poly 0.8µm CMOS

OPERATING LIFE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|-------------------|-----------|--------------|-----------|-----------|----------|----------|-------------|
| HIGH TEMP OP LIFE | 0745 | MAX2070GTM+ | 135C | 408 HRS | 47 | 0 | NAJYBQ002E# |
| HIGH TEMP OP LIFE | 0803 | MAX2116UTL+ | 135C | 1000 HRS | 80 | 0 | ND71L35C0A |
| HIGH TEMP OP LIFE | 0811 | MAX2606EUT+ | 135C | 138 HRS | 30 | 0 | N7DCFA058E# |
| Total: | | | | | | 0 | |

STORAGE LIFE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|---------------|-----------|--------------|-----------|-----------|----------|----------|------------|
| STORAGE LIFE | 0803 | MAX2116UTL+ | 150C | 1000 HRS | 80 | 0 | ND71L35C0A |
| Total: | | | | | | 0 | |

TEMPERATURE CYCLE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|--------------------------------|-----------|--------------|--------------|-----------|----------|----------|-------------|
| TEMP CYCLE, 5' RAMP, 10' DWELL | 074 | MAX2606EUT+ | -65C TO 150C | 1000 CYS | 80 | 0 | N7DCFA058C# |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 0735 | MAX2607EUT+ | -65C TO 150C | 500 CYS | 77 | 0 | N7DDFA062B# |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 0745 | MAX2070GTM+ | -65C TO 150C | 1000 CYS | 77 | 0 | NAJYBQ002E# |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 0803 | MAX2116UTL+ | -65C TO 150C | 500 CYS | 80 | 0 | ND71L35C0A |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 0803 | MAX2116UTL+ | -65C TO 150C | 1000 CYS | 80 | 0 | ND71L35C0 |
| Total: | | | | | | 0 | |

FAILURE RATE: **MTTF (YRS): 20021** **FITS: 5.7**