



10/8/10

**RELIABILITY MONITOR REPORT
FOR**

HYBRID

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:

| | | | |
|--------------|--------------|-------------|-------------|
| MAX11014BGT | MAX16804ATP+ | MAX252EHL-W | MAX8798ETX+ |
| MAX97215ETB+ | | | |

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 78482 QUANTITY: 407 FAILS: 0 FITS: 1.5

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 10/1/2009 and 9/30/2010 .

Process Information:

Process Description: HYBRID

OPERATING LIFE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|-------------------|-----------|---------------|-----------|-----------|----------|----------|-----------|
| HIGH TEMP OP LIFE | 0922 | MAX252EHL-W | 135C | 1000 HRS | 46 | 0 | EEZPEJFQ1 |
| HIGH TEMP OP LIFE | 0922 | MAX252EHL-W | 135C | 1000 HRS | 46 | 0 | EEZPEJFQ2 |
| HIGH TEMP OP LIFE | 0922 | MAX252EHL-W | 135C | 1000 HRS | 45 | 0 | EEZPEJFQ3 |
| HIGH TEMP OP LIFE | 1013 | MAX8798ETX+ | 135C | 1000 HRS | 45 | 0 | JFRTBGCQ1 |
| HIGH TEMP OP LIFE | 1013 | MAX8798ETX+ | 135C | 1000 HRS | 45 | 0 | JFRTBGCQ2 |
| HIGH TEMP OP LIFE | 1013 | MAX8798ETX+ | 135C | 1000 HRS | 45 | 0 | JFRTBGCQ3 |
| HIGH TEMP OP LIFE | 1014 | MAX97215ETB+T | 135C | 1000 HRS | 45 | 0 | NFVTBAEQ1 |
| HIGH TEMP OP LIFE | 1014 | MAX97215ETB+T | 135C | 1000 HRS | 45 | 0 | NFVTBAEQ2 |
| HIGH TEMP OP LIFE | 1014 | MAX97215ETB+ | 135C | 1000 HRS | 45 | 0 | NFVTBAEQ3 |
| Total: | | | | | | 0 | |

STORAGE LIFE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|--------------|-----------|---------------|-----------|-----------|----------|-------|-----------|
| STORAGE LIFE | 0922 | MAX252EHL-W | 150C | 1000 HRS | 78 | 0 | EEZPEJFQ1 |
| STORAGE LIFE | 0922 | MAX252EHL-W | 150C | 1000 HRS | 78 | 0 | EEZPEJFQ2 |
| STORAGE LIFE | 0922 | MAX252EHL-W | 150C | 1000 HRS | 78 | 0 | EEZPEJFQ3 |
| STORAGE LIFE | 0930 | MAX16804ATP+ | 150C | 500 HRS | 48 | 0 | JAZTAAEA |
| STORAGE LIFE | 1013 | MAX11014BGTM+ | 150C | 1000 HRS | 77 | 0 | JDWTAEAQ1 |
| STORAGE LIFE | 1013 | MAX11014BGTM+ | 150C | 500 HRS | 77 | 0 | JDWTAEAQ2 |
| STORAGE LIFE | 1013 | MAX11014BGTM+ | 150C | 1000 HRS | 77 | 0 | JDWTAEAQ3 |
| STORAGE LIFE | 1013 | MAX8798ETX+ | 150C | 500 HRS | 77 | 0 | JFRTBGCQ1 |

| | | | | | | | |
|---------------|------|---------------|------|----------|----|----------|-----------|
| STORAGE LIFE | 1013 | MAX8798ETX+ | 150C | 1000 HRS | 77 | 0 | JFRTBGCQ3 |
| STORAGE LIFE | 1014 | MAX97215ETB+T | 150C | 1000 HRS | 77 | 0 | NFVTBAEQ1 |
| STORAGE LIFE | 1014 | MAX97215ETB+T | 150C | 1000 HRS | 77 | 0 | NFVTBAEQ2 |
| STORAGE LIFE | 1014 | MAX97215ETB+ | 150C | 1000 HRS | 77 | 0 | NFVTBAEQ3 |
| Total: | | | | | | 0 | |

TEMPERATURE CYCLE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | LOT NO. |
|--------------------------------|-----------|---------------|--------------|-----------|----------|----------|-----------|
| TEMP CYCLE, 5' RAMP, 10' DWELL | 0922 | MAX252EHL-W | -65C TO 150C | 1000 CYS | 78 | 0 | EEZPEJFQ1 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 0922 | MAX252EHL-W | -65C TO 150C | 1000 CYS | 78 | 0 | EEZPEJFQ2 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 0922 | MAX252EHL-W | -65C TO 150C | 1000 CYS | 78 | 0 | EEZPEJFQ3 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 0941 | MAX97215ETB+ | -65C TO 150C | 4500 CYS | 41 | | NFVTBAB |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1013 | MAX11014BGTM+ | -65C TO 150C | 1000 CYS | 77 | 0 | JDWTAEQ1 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1013 | MAX11014BGTM+ | -65C TO 150C | 1000 CYS | 77 | 0 | JDWTAEQ2 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1013 | MAX11014BGTM+ | -65C TO 150C | 1000 CYS | 77 | 0 | JDWTAEQ3 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1013 | MAX8798ETX+ | -65C TO 150C | 500 CYS | 77 | 0 | JFRTBGCQ1 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1013 | MAX8798ETX+ | -65C TO 150C | 500 CYS | 77 | 0 | JFRTBGCQ2 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1013 | MAX8798ETX+ | -65C TO 150C | 500 CYS | 77 | 0 | JFRTBGCQ3 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1014 | MAX97215ETB+T | -65C TO 150C | 1000 CYS | 77 | 0 | NFVTBAEQ1 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1014 | MAX97215ETB+T | -65C TO 150C | 1000 CYS | 77 | 0 | NFVTBAEQ2 |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1014 | MAX97215ETB+ | -65C TO 150C | 1000 CYS | 77 | 0 | NFVTBAEQ3 |
| Total: | | | | | | 0 | |

FAILURE RATE: MTF (YRS): 78482 QUANTITY: 407 FAILS: 0 FITS: 1.5