

8/1/2019



RELIABILITY MONITOR REPORT
FOR

Power Cap Package

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 Package Reliability Monitor. The specific assemblies included in this package monitor are:

| ASSY SITE | PINS PACKAGE |
|-----------|--------------|
| MPOC | 0 Power Cap |

Note: Due to the nature of the construction on this assembly, there is no operating life data collected.

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between 4/1/2019 and 8/31/2019

Assembly Information:

Package Type: Power Cap
 Flammability: UL 94-V0
 Date Code Range: 1828 to 1842

PACKAGE TESTS

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | FA NO |
|---------------|-----------|--------------|----------------------------|-----------|----------|----------|-------|
| SOLDERABILITY | 1842 | 90-1744W+120 | JESD22-B102, COND C (245C) | | 15 | 0 | |
| Total: | | | | | | 0 | |

STORAGE LIFE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | FA NO |
|---------------|-----------|--------------|-----------|-----------|----------|----------|-------|
| STORAGE LIFE | 1842 | 90-1744W+120 | 150°C | 1000 HRS | 85 | 0 | |
| Total: | | | | | | 0 | |

TEMPERATURE CYCLE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | FA NO |
|--------------------------------|-----------|--------------|-----------------------------|-----------|----------|----------|-------|
| TEMP CYCLE, 5' RAMP, 10' DWELL | | 90-1744P+07I | -40C TO +125C (Condition G) | 1000 CYS | 80 | 0 | |
| TEMP CYCLE, 5' RAMP, 10' DWELL | 1842 | 90-1744W+120 | -65C TO +150C (Condition C) | 1000 CYS | 85 | 0 | |
| Total: | | | | | | 0 | |

UNBIASED MOISTURE RESISTANCE

| DESCRIPTION | DATE CODE | TEST VEHICLE | CONDITION | READPOINT | QUANTITY | FAILS | FA NO |
|---------------|-----------|--------------|----------------|-----------|----------|----------|-------|
| MOISTURE SOAK | | 90-1744P+07I | 130C, 85% R.H. | 500 HRS | 80 | 0 | |
| MOISTURE SOAK | 1828 | 90-1744P+07I | 130C, 85% R.H. | 500 HRS | 80 | 0 | |
| MOISTURE SOAK | 1842 | 90-1744W+120 | 130C, 85% R.H. | 500 HRS | 85 | 0 | |
| Total: | | | | | | 0 | |