

8/1/2019



RELIABILITY MONITOR REPORT
FOR

PDIP 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
Cirtek	20 PDIP Hybrid

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 31005 FITS: 3.7

The parameters used to calculate this failure rate are as follows:

Cf: 60% Ea: 0.7 Tu: 25 °C

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 8/1/2019

Assembly Information:

Package Type: PDIP Hybrid
Date Code Range: 1836 to 1836

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1836	MAX233CPP+G36	125°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1836	MAX233CPP+G36	125°C	1000 HRS	80	0	
Total:						0	

PACKAGE TESTS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BOND CRATER	1836	MAX233CPP+G36			20	0	
RESISTANCE TO SOLVENTS	1836	MAX233CPP+G36			15	0	
SOLDER SHOCK	1836	MAX233CPP+G36			15	0	
BOND CRATER	1836	MAX233CPP+G36			15	0	
RESISTANCE TO SOLVENTS	1836	MAX233CPP+G36			15	0	
SOLDER SHOCK	1836	MAX233CPP+G36			15	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1836	MAX233CPP+G36	150°C	1000 HRS	85	0	
STORAGE LIFE	1836	MAX233CPP+G36	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	1836	MAX233CPP+G36	-65C TO +150C (Condition C)	1000 CYS	85	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1836	MAX233CPP+G36	-65C TO +150C (Condition C)	1000 CYS	85	0
				Total:		0

FAILURE RATE: MTTF (YRS): 31005 FITS: 3.7