

8/1/2019



**RELIABILITY MONITOR REPORT
FOR**

San Antonio E6

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:

87-21348+T00	90-15540+07I	90-15560+07I	90-1921G#F50	90-1990A+F50
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 15503 QUANTITY: 80 FAILS: 0 FITS: 7.4

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 4/1/2019 and 8/1/2019 .

Process Information:

Process Description: San Antonio E6

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1849	87-21348+T00	125°C	1000 HRS	33	0	FK802120AD
HIGH TEMP OP LIFE	1849	87-21348+T00	125°C	1000 HRS	33	0	FK802120AD
HIGH TEMP OP LIFE	1849	87-21348+T00	125°C	1000 HRS	14	0	FK802120AD
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1849	87-21348+T00	150°C	1000 HRS	80	0	FK802120AD
STORAGE LIFE	1851	90-1921G#F50	150°C	1000 HRS	85	0	MK428113AAB-QAL
STORAGE LIFE	1914	90-15540+07I	150°C	1000 HRS	80	0	MK429516AAA-QAL
STORAGE LIFE	1914	90-15540+07I	150°C	1000 HRS	80	0	MK429497AAA-QAL
STORAGE LIFE	1914	90-15560+07I	150°C	1000 HRS	80	0	MK429518AAA-QAL
STORAGE LIFE	1914	90-15560+07I	150°C	1000 HRS	80	0	MK429517AAA-QAL
STORAGE LIFE	1916	90-1990A+F50	150°C	1000 HRS	80	0	MK429316AAB-QAL
STORAGE LIFE	1916	90-1990A+F50	150°C	1000 HRS	80	0	MK429371AAB-QAL
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1849	87-21348+T00	-65C TO +150C (Condition C)	1000 CYS	80	0	FK802120AD
TEMP CYCLE, 5' RAMP, 10' DWELL	1851	90-1921G#F50	-65C TO +150C (Condition C)	1000 CYS	85	0	MK428113AAB-QAL

TEMP CYCLE, 5' RAMP, 10' DWELL	1914	90-15540+07I	-65C TO +150C (Condition C)	1000	CYS	80	0	MK429516AAA-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL	1914	90-15540+07I	-65C TO +150C (Condition C)	1000	CYS	80	0	MK429497AAA-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL	1914	90-15560+07I	-65C TO +150C (Condition C)	1000	CYS	80	0	MK429518AAA-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL	1914	90-15560+07I	-65C TO +150C (Condition C)	1000	CYS	80	0	MK429517AAA-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL	1916	90-1990A+F50	-65C TO +150C (Condition C)	1000	CYS	80	0	MK429316AAB-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL	1916	90-1990A+F50	-65C TO +150C (Condition C)	1000	CYS	80	0	MK429371AAB-QAL
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1916	90-1990A+F50	85 C/85% R.H.	1000 HRS	80	0	MK429316AAB-QAL
BIASED MOISTURE	1916	90-1990A+F50	85 C/85% R.H.	1000 HRS	80	0	MK429371AAB-QAL
Total:							0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1849	87-21348+T00	130C, 85% R.H.	96 HRS	80	0	FK802120AD
MOISTURE SOAK	1851	90-1921G#F50	130C, 85% R.H.	1000 HRS	83	0	MK428113AAB-QAL
Total:							0

FAILURE RATE: MTTF (YRS): 15503 QUANTITY: 80 FAILS: 0 FITS: 7.4