

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

San Antonio EC8

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:

89-32KHZ-0W8

The calculated failure rate for devices using this process is:

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 7/1/2017 and 9/30/2017 .

Process Information:

Process Description: San Antonio EC8

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1708	89-32KHZ-0W8	150°C	500 HRS	80	0	ZS737451ADA-QUA
STORAGE LIFE	1708	89-32KHZ-0W8	150°C	1000 HRS	80	0	ZS737451ADA-QUA
STORAGE LIFE	1708	89-32KHZ-0W8	150°C	500 HRS	80	0	ZS737451AEA-QUA
STORAGE LIFE	1708	89-32KHZ-0W8	150°C	1000 HRS	80	0	ZS737451AEA-QUA
STORAGE LIFE	1708	89-32KHZ-0W8	150°C	500 HRS	80	0	ZS737451AFA-QUA
STORAGE LIFE	1708	89-32KHZ-0W8	150°C	1000 HRS	80	0	ZS737451AFA-QUA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1708	89-32KHZ-0W8	-65C TO +150C (Condition C)	500 CYS	100	0	ZS737451ADA-QUA
TEMP CYCLE, 5' RAMP, 10' DWELL	1708	89-32KHZ-0W8	-65C TO +150C (Condition C)	1000 CYS	80	0	ZS737451ADA-QUA
TEMP CYCLE, 5' RAMP, 10' DWELL	1708	89-32KHZ-0W8	-65C TO +150C (Condition C)	500 CYS	100	0	ZS737451AEA-QUA
TEMP CYCLE, 5' RAMP, 10' DWELL	1708	89-32KHZ-0W8	-65C TO +150C (Condition C)	1000 CYS	80	0	ZS737451AEA-QUA
TEMP CYCLE, 5' RAMP, 10' DWELL	1708	89-32KHZ-0W8	-65C TO +150C (Condition C)	500 CYS	100	0	ZS737451AFA-QUA
TEMP CYCLE, 5' RAMP, 10' DWELL	1708	89-32KHZ-0W8	-65C TO +150C (Condition C)	1000 CYS	80	0	ZS737451AFA-QUA
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1708	89-32KHZ-0W8	85 C/85% R.H.	500	HRS	62	0	ZS737451ADA-QUA
BIASED MOISTURE	1708	89-32KHZ-0W8	85 C/85% R.H.	500	HRS	62	0	ZS737451AEA-QUA
BIASED MOISTURE	1708	89-32KHZ-0W8	85 C/85% R.H.	500	HRS	62	0	ZS737451AFA-QUA
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1708	89-32KHZ-0W8	130C, 85%	96	HRS	80	0	ZS737451ADA-QUA
MOISTURE SOAK	1708	89-32KHZ-0W8	130C, 85%	96	HRS	80	0	ZS737451AEA-QUA
MOISTURE SOAK	1708	89-32KHZ-0W8	130C, 85%	96	HRS	80	0	ZS737451AFA-QUA
Total:							0	