

6/25/2020



**RELIABILITY MONITOR REPORT
FOR**

TJT 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:

90-1230A+B12	90-1230Y+07I	90-1230Y+07I/D	90-16870+003 / D	90-1904L#F50 /
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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 1/1/2020 and 3/31/2020 .

Process Information:

Process Description: TJT EC8

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE		90-1230Y+07I	150°C	1000 HRS	80	0	MK429520AAA-QAL
STORAGE LIFE	1914	90-1230Y+07I	150°C	1000 HRS	80	0	MK429519AAA-QAL
STORAGE LIFE	1921	90-1230Y+07I/DS1230Y-70IND+	150°C	1000 HRS	80	0	MK430027AAA-QAL
STORAGE LIFE	1921	90-1230Y+07I/DS1230Y-70IND+	150°C	1000 HRS	80	0	MK430028AAA-QAL
STORAGE LIFE	1931	90-1904L#F50 / DS1904L-F5#	150°C	1000 HRS	80	0	MK430023AAB-QAL
STORAGE LIFE	1931	90-1904L#F50 / DS1904L-F5#	150°C	1000 HRS	80	0	MK430025AAB-QAL
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL		90-1230A+B12	-65C TO +150C (Condition C)	1000 CYS	85	0	MK428118AAA-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL		90-1230Y+07I	-65C TO +150C (Condition C)	1000 CYS	80	0	MK429520AAA-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL	1914	90-1230Y+07I	-65C TO +150C (Condition C)	1000 CYS	80	0	MK429519AAA-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL	1921	90-1230Y+07I/DS1230Y-70IND+	-65C TO +150C (Condition C)	1000 CYS	78	0	MK430027AAA-QAL
TEMP CYCLE, 5' RAMP, 10' DWELL	1921	90-1230Y+07I/DS1230Y-70IND+	-65C TO +150C (Condition C)	1000 CYS	80	0	MK430028AAA-QAL
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE	TEST CODE VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE		90-1230Y+07I	85 C/85% R.H.	1000 HRS	80	0	MK429520AAA-QAL
BIASED MOISTURE	1914	90-1230Y+07I	85 C/85% R.H.	1000 HRS	80	0	MK429519AAA-QAL
BIASED MOISTURE	1921	90-1230Y+07I/DS1230Y- 70IND+	130C, 85% R.H.	96 HRS	80	0	MK430027AAA-QAL
BIASED MOISTURE	1921	90-1230Y+07I/DS1230Y- 70IND+	130C, 85% R.H.	96 HRS	80	0	MK430028AAA-QAL
BIASED MOISTURE	1922	90-16870+003 / DS1687- 3+	130C, 85% R.H.	96 HRS	80	0	MK430060AAA-QAL
BIASED MOISTURE	1931	90-1904L#F50 / DS1904L-F5#	130C, 85% R.H.	96 HRS	80	0	MK430023AAB-QAL
BIASED MOISTURE	1931	90-1904L#F50 / DS1904L-F5#	130C, 85% R.H.	96 HRS	80	0	MK430025AAB-QAL
				Total:		0	