

7/10/2017



**RELIABILITY MONITOR REPORT  
FOR**

**Fab 101 S18**

**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:

MAX77818EWZ	MAX77865FSE	MAX77865SEW	MAX98706AEW	MAX98706AEW
MAX98730EWJ+	MAX98730EWJ+	MAX98925EWV		

The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 38558    QUANTITY: 286    FAILS: 0    FITS: 3.0**

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 4/1/2017 and 6/30/2017 .

**Process Information:**

Process Description:            Fab 101 S18

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1626	MAX98706AEWV+TCLE	135°C	1000 HRS	80	0	VBFO6A006A
HIGH TEMP OP LIFE	1633	MAX98925EWV+T	135°C	1000 HRS	80	0	VATF8A754AG
HIGH TEMP OP LIFE	1640	MAX77865FSEWZ+T	135°C	192 HRS	32	0	VBNF1Q001C#
HIGH TEMP OP LIFE	1646	MAX98706AEWV+TCLE	135°C	1000 HRS	46	0	VBFO6A019AB
HIGH TEMP OP LIFE	AC	MAX77865FSEWZ+T	135°C	500 HRS	48	0	VBNF1Q001CH
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1448	MAX77818EWZ+TG7	150°C	1000 HRS	50	0	VAQQ5A021A#
STORAGE LIFE	1448	MAX77818EWZ+TG7	150°C	1000 HRS	50	0	VAQQ5A022A#
STORAGE LIFE	1626	MAX98706AEWV+TCLE	150°C	1000 HRS	80	0	VBFO6A006A
STORAGE LIFE	1633	MAX98925EWV+T	150°C	1000 HRS	80	0	VATF8A754AG
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	100 CYS	80	0	VBFO6A004A
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	100 CYS	80	0	VBFO6A030AW

TEMP CYCLE, 15' RAMP, 15' DWELL	1438	MAX98730EWJ+CGT	-40C TO +125C (Condition G)	100	CYS	80	0	VASU5A004BI
TEMP CYCLE, 15' RAMP, 15' DWELL	1525	MAX98730EWJ+CGT	-40C TO +125C (Condition G)	100	CYS	80	0	VASU5A007BC
TEMP CYCLE, 15' RAMP, 15' DWELL	1530	MAX98730EWJ+TCGT	-40C TO +125C (Condition G)	100	CYS	80	0	VASU5A011AE
TEMP CYCLE, 15' RAMP, 15' DWELL	1546	MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	850	CYS	79	0	VBFO6Q001C\$
TEMP CYCLE, 15' RAMP, 15' DWELL	1626	MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	1000	CYS	80	0	VBFO6Q003AE
TEMP CYCLE, 15' RAMP, 15' DWELL	1626	MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	850	CYS	80	0	VBFO6A006A#
TEMP CYCLE, 15' RAMP, 15' DWELL	1627	MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	850	CYS	80	0	VBFO6A006B#
TEMP CYCLE, 15' RAMP, 15' DWELL	1627	MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	850	CYS	80	0	VBFO6A006C#
TEMP CYCLE, 15' RAMP, 15' DWELL	1627	MAX98706AEWV+CLE	-40C TO +125C (Condition G)	100	CYS	80	0	VBFO6A006BB
TEMP CYCLE, 15' RAMP, 15' DWELL	1633	MAX98925EWV+T	-40C TO +125C (Condition G)	500	CYS	80	0	VATF8A754AG
TEMP CYCLE, 15' RAMP, 15' DWELL	1636	MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	100	CYS	80	0	VBFO6A004AC
TEMP CYCLE, 15' RAMP, 15' DWELL	1645	MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	100	CYS	40	0	VBFOA019AB
TEMP CYCLE, 15' RAMP, 15' DWELL	1649	MAX98706AEWV+TCLE	-40C TO +125C (Condition G)	100	CYS	80	0	VBFO6A025A
TEMP CYCLE, 15' RAMP, 15' DWELL	1702	MAX77865SEWZ+T	-40C TO +125C (Condition G)	500	CYS	80	0	VBNF1A010A
<b>Total:</b>							<b>0</b>	

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#### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1438	MAX98730EWJ+TCGT	130C, 85%	264	HRS	80	0	VASU5A004B#
BIASED MOISTURE	1626	MAX98706AEWV+TCLE	130C, 85%	264	HRS	80	0	VBFO6Q003AE
BIASED MOISTURE	1626	MAX98706AEWV+TCLE	130C, 85%	100	HRS	80	0	VBFO6A006A#
BIASED MOISTURE	1627	MAX98706AEWV+TCLE	130C, 85%	100	HRS	80	0	VBFO6A006B#
BIASED MOISTURE	1627	MAX98706AEWV+TCLE	130C, 85%	100	HRS	80	0	VBFO6A006C#
BIASED MOISTURE	1633	MAX98925EWV+T	130C, 85%	264	HRS	50	0	VATF8A754AG
<b>Total:</b>							<b>0</b>	

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**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE	TEST	CONDITION	READPOINT	QUANTITY	FAILS	LOT
	CODE	VEHICLE					NO.
MOISTURE SOAK	1530	MAX98730EWJ+TCGT	130C, 85%	96	HRS	80	0 VASU5A011AE
MOISTURE SOAK	1626	MAX98706AEWV+TCLE	130C, 85%	96	HRS	80	0 VBFO6Q003AE
MOISTURE SOAK	1626	MAX98706AEWV+TCLE	130C, 85%	100	HRS	80	0 VBFO6A006A#
MOISTURE SOAK	1627	MAX98706AEWV+TCLE	130C, 85%	100	HRS	80	0 VBFO6A006B#
MOISTURE SOAK	1627	MAX98706AEWV+TCLE	130C, 85%	100	HRS	80	0 VBFO6A006C#

**Total:** **0**

**FAILURE RATE:** **MTTF (YRS): 38558** **QUANTITY: 286** **FAILS: 0** **FITS: 3.0**