1/10/2018

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:

MAX14778ETP+	MAX16936RATE	MAX77818EWZ	MAX77865FSE	MAX77865SEW
MAX77865SEW	MAX86915EFD+	MAX86915EFD+	MAX98706AEW	MAX98730EWJ+
MAX98730EWJ+	MAX98925EWV			

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 57877 QUANTITY: 477 FAILS: 0 FITS: 2.0

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 10/1/2017 and 12/31/2017.

Process Information:

Process Description: Fab 101 S18

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE		MAX77865FSEWZ+T	135°C	500	HRS	48	0	VBNF1Q001CH
HIGH TEMP OP LIFE		MAX86915EFD+	135°C	1000	HRS	53	0	VBTH1Q001Q1
HIGH TEMP OP LIFE		MAX86915EFD+	135°C	1000	HRS	53	0	VBTH1Q001Q2
HIGH TEMP OP LIFE		MAX86915EFD+	135°C	1000	HRS	52	0	VBTH1Q001Q3
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	1745	MAX16936RATEA/V+	135°C	192	HRS	79	0	VBSW4Q003C
HIGH TEMP OP LIFE	1745	MAX14778ETP+	135°C	192	HRS	80	0	VBTN9Q001D
					Total:		**0**	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
STORAGE LIFE		MAX86915EFD+	150°C	1000	HRS	80	0	VBTH1Q001Q1
STORAGE LIFE		MAX86915EFD+	150°C	1000	HRS	80	0	VBTH1Q001Q3
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	1633	MAX98925EWV+T	150°C	1000	HRS	80	0	VATF8A754AG
STORAGE LIFE	1734	MAX86915EFD+	150°C	1000	HRS	80	0	VBTH1Q001Q2
					Total:		**0**	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	80	0	VBFO6A004A
TEMP CYCLE, 5' RAMP, 10' DWELL		MAX86915EFD+	-65C TO +150C (Condition C)	1000	CYS	80	0	VBTH1Q001Q1
TEMP CYCLE, 5' RAMP, 10' DWELL		MAX86915EFD+	-65C TO +150C (Condition C)	1000	CYS	80	0	VBTH1Q001Q3
TEMP CYCLE, 15' RAMP, 15' DWELL	1438	MAX98730EWJ+CGT	-40C TO +125C (Condtion G)	100	CYS	80	0	VASU5A004BI
TEMP CYCLE, 15' RAMP, 15' DWELL	1525	MAX98730EWJ+CGT	-40C TO +125C (Condtion G)	100	CYS	80	0	VASU5A007BC
TEMP CYCLE, 15' RAMP, 15' DWELL	1530	MAX98730EWJ+TCGT	-40C TO +125C (Condtion G)	100	CYS	80	0	VASU5A011AE
TEMP CYCLE, 15' RAMP, 15' DWELL	1530	MAX98730EWJ+TCGT	-40C TO +125C (Condtion G)	100	CYS	80	0	VASU5A010AH
TEMP CYCLE, 15' RAMP, 15' DWELL	1633	MAX98925EWV+T	-40C TO +125C (Condtion G)	500	CYS	80	0	VATF8A754AG
TEMP CYCLE, 15' RAMP, 15' DWELL	1636	MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	80	0	VBFO6A004AC
TEMP CYCLE, 15' RAMP, 15' DWELL	1643	MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	80	0	VBFO6A017AF
TEMP CYCLE, 15' RAMP, 15' DWELL	1645	MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	40	0	VBFOA019AB
TEMP CYCLE, 15' RAMP, 15' DWELL	1649	MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	80	0	VBFO6A025A
TEMP CYCLE, 15' RAMP, 15' DWELL	1702	MAX77865SEWZ+T	-40C TO +125C (Condtion G)	1000	CYS	79	0	VBNF1A010A
TEMP CYCLE, 15' RAMP, 15' DWELL	1702	MAX77865SEWZ+T	-40C TO +125C (Condtion G)	250	CYS	80	0	VBNP1A011A#
TEMP CYCLE, 15' RAMP, 15' DWELL	1703	MAX77865SEWZ+	-40C TO +125C (Condtion G)	500	CYS	77	0	VBNF1A116AI
TEMP CYCLE, 15' RAMP, 15' DWELL	1704	MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	80	0	VBFO6A033AN
TEMP CYCLE, 15' RAMP, 15' DWELL	1706	MAX98730EWJ+TCGT	-40C TO +125C (Condtion G)	100	CYS	80	0	VASU5A013AE

TEMP CYCLE, 15' RAMP, 15' DWELL	1706	MAX98730EWJ+TCGT	-40C TO +125C (Condtion G)	100	CYS	80	0	VASU5A008AE
TEMP CYCLE, 15' RAMP, 15' DWELL	1706	MAX98730EWJ+TCGT	-40C TO +125C (Condtion G)	100	CYS	80	0	VASU5A013AG
TEMP CYCLE, 15' RAMP, 15' DWELL	1709	MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	80	0	VBFO6A031AA
TEMP CYCLE, 15' RAMP, 15' DWELL	1712	MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	80	0	VBFO6A032AD
TEMP CYCLE, 15' RAMP, 15' DWELL	1712	MAX98706AEWV+TCLE	-40C TO +125C (Condtion G)	100	CYS	80	0	VBFO6A034AG
TEMP CYCLE, 5' RAMP, 10' DWELL	1734	MAX86915EFD+	-65C TO +150C (Condition C)	1000	CYS	80	0	VBTH1Q001Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1741	MAX86915EFD+	-65C TO +150C (Condition C)	96	CYS	50	0	VTU1Q001CA
					Total:		**0**	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
BIASED MOISTURE		MAX86915EFD+	85 C/85% R.H.	1000	HRS	80	0	VBTH1Q001Q1
BIASED MOISTURE		MAX86915EFD+	85 C/85% R.H.	1000	HRS	60	0	VBTH1Q001Q2
BIASED MOISTURE		MAX86915EFD+	85 C/85% R.H.	500	HRS	20	0	VBTH1Q001Q2
BIASED MOISTURE		MAX86915EFD+	85 C/85% R.H.	1000	HRS	59	0	VBTH1Q001Q3
BIASED MOISTURE		MAX86915EFD+	85 C/85% R.H.	500	HRS	20	0	VBTH1Q001Q2
BIASED MOISTURE		MAX86915EFD+	130C, 85% R.H.	96	HRS	50	0	VBTH1Q001Q1
BIASED MOISTURE	1438	MAX98730EWJ+TCGT	130C, 85% R.H.	264	HRS	80	0	VASU5A004B#
BIASED MOISTURE	1633	MAX98925EWV+T	130C, 85% R.H.	264	HRS	50	0	VATF8A754AG
BIASED MOISTURE	1703	MAX77865SEWZ+	130C, 85% R.H.	264	HRS	40	0	VBNF1A116AI
BIASED MOISTURE	1741	MAX86915EFD+T	85 C/85% R.H.	120	HRS	50	0	VBTU1Q001CA
					Total:		**0**	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT		QUANTITY	FAILS	LOT NO.
MOISTURE SOAK		MAX86915EFD+	130C, 85% R.H.	96	HRS	80	0	VBTH1Q001Q1
MOISTURE SOAK		MAX86915EFD+	130C, 85% R.H.	96	HRS	80	0	VBTH1Q001Q2
MOISTURE SOAK		MAX86915EFD+	130C, 85% R.H.	96	HRS	80	0	VBTH1Q001Q3
MOISTURE SOAK	1530	MAX98730EWJ+TCGT	130C, 85% R.H.	96	HRS	80	0	VASU5A011AE
MOISTURE SOAK	1530	MAX98730EWJ+TCGT	130C, 85% R.H.	96	HRS	80	0	VASU5A017AE
MOISTURE SOAK	1530	MAX98730EWJ+TCGT	130C, 85% R.H.	96	HRS	80	0	VASU5A010AH
MOISTURE SOAK	1706	MAX98730EWJ+TCGT	130C, 85% R.H.	96	HRS	80	0	VASU5A013AE

MOISTURE SOAK	1706	MAX98730EWJ+TCGT	130C, 85% R.H.	96	HRS	80	0	VASU5A008AE
MOISTURE SOAK	1706	MAX98730EWJ+TCGT	130C, 85% R.H.	96	HRS	80	0	VASU5A013AG
MOISTURE SOAK	1741	MAX86915EFD+	130C, 85% R.H.	96	HRS	50	0	VTU1Q001CA
					Total:		**0**	

FAILURE RATE: MTTF (YRS): 57877 QUANTITY: 477 FAILS: 0 FITS: 2.0