

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN BCD88

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:

MAX15005BAU	MAX15006AAT	MAX15007CATT	MAX5090CATE	MAX6769TALD
MAX6921AWI+	MAX9921AUB/			

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 103639 QUANTITY: 660 FAILS: 0 FITS: 1.1

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: MFN BCD88

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1527	MAX6769TALD2/VY+	135°C	1000 HRS	40	0	J984DA084MX
HIGH TEMP OP LIFE	1613	MAX9921AUB/V+	135°C	1000 HRS	80	0	JFFZC3014Q2
HIGH TEMP OP LIFE	1629	MAX15005BAUE/V+	135°C	1000 HRS	48	0	J831CA294BA
HIGH TEMP OP LIFE	1629	MAX15005BAUE/V+	135°C	1000 HRS	33	0	J831CA294BA
HIGH TEMP OP LIFE	1644	MAX15006AATT+	135°C	1000 HRS	47	0	JADZBA518AC
HIGH TEMP OP LIFE	1644	MAX15006AATT+	135°C	1000 HRS	33	0	JADZBA518AC
HIGH TEMP OP LIFE	1703	MAX15006AATT+	135°C	1000 HRS	33	0	JADZBA542CG
HIGH TEMP OP LIFE	1711	MAX5090CATE+	135°C	500 HRS	89	0	JZ6DBA069G
HIGH TEMP OP LIFE	1711	MAX5090CATE+	135°C	500 HRS	89	0	JZ6DBA069H
HIGH TEMP OP LIFE	1711	MAX5090CATE+	135°C	1000 HRS	88	0	JZ6DBA069I
HIGH TEMP OP LIFE	1718	MAX15007CATT/V+	135°C	1000 HRS	47	0	JADUBA310IA
HIGH TEMP OP LIFE	1718	MAX15007CATT/V+	135°C	1000 HRS	33	0	JADUBA310IA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1629	MAX15005BAUE/V+	150°C	1000 HRS	80	0	J831CA294BA
STORAGE LIFE	1644	MAX15006AATT+	150°C	1000 HRS	80	0	JADZBA518AC
STORAGE LIFE	1703	MAX15006AATT+	150°C	1000 HRS	80	0	JADZBA542CG
STORAGE LIFE	1711	MAX5090CATE+	150°C	500 HRS	90	0	JZ6DBA069G
STORAGE LIFE	1711	MAX5090CATE+	150°C	500 HRS	90	0	JZ6DBA069H

STORAGE LIFE	1711	MAX5090CATE+	150°C	500	HRS	90	0	JZ6DBA069I
STORAGE LIFE	1718	MAX15007CATT/V+	150°C	1000	HRS	80	0	JADUBA310IA
Total:							0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
TEMP CYCLE, 5' RAMP, 10' DWELL	1614	MAX6921AWI+	-65C TO +150C (Condition C)	1000	CYS	80	0	JJU0CA022A
TEMP CYCLE, 5' RAMP, 10' DWELL	1629	MAX15005BAUE/V+	-65C TO +150C (Condition C)	1000	CYS	80	0	J831CA294BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1644	MAX15006AATT+	-65C TO +150C (Condition C)	1000	CYS	80	0	JADZBA518AC
TEMP CYCLE, 5' RAMP, 10' DWELL	1703	MAX15006AATT+	-65C TO +150C (Condition C)	1000	CYS	80	0	JADZBA542CG
TEMP CYCLE, 5' RAMP, 10' DWELL	1711	MAX5090CATE+	-65C TO +150C (Condition C)	1000	CYS	80	0	JZ6DBA069G
TEMP CYCLE, 5' RAMP, 10' DWELL	1711	MAX5090CATE+	-65C TO +150C (Condition C)	1000	CYS	80	0	JZ6DBA069H
TEMP CYCLE, 5' RAMP, 10' DWELL	1711	MAX5090CATE+	-65C TO +150C (Condition C)	1000	CYS	80	0	JZ6DBA069I
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX15007CATT/V+	-65C TO +150C (Condition C)	1000	CYS	80	0	JADUBA310IA
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1614	MAX6921AWI+	130C, 85%	100	HRS	80	0	JJU0CA022A
BIASED MOISTURE	1629	MAX15005BAUE/V+	130C, 85%	96	HRS	77	0	J831CA294BA
BIASED MOISTURE	1644	MAX15006AATT+	130C, 85%	96	HRS	80	0	JADZBA518AC
BIASED MOISTURE	1703	MAX15006AATT+	130C, 85%	96	HRS	80	0	JADZBA542CG
BIASED MOISTURE	1711	MAX5090CATE+	130C, 85%	96	HRS	37	0	JZ6DBA069G
BIASED MOISTURE	1711	MAX5090CATE+	130C, 85%	96	HRS	31	0	JZ6DBA069H
BIASED MOISTURE	1711	MAX5090CATE+	130C, 85%	96	HRS	12	0	JZ6DBA069H
BIASED MOISTURE	1711	MAX5090CATE+	130C, 85%	96	HRS	25	0	JZ6DBA069I
BIASED MOISTURE	1711	MAX5090CATE+	130C, 85%	96	HRS	37	0	JZ6DBA069I
BIASED MOISTURE	1711	MAX5090CATE+	130C, 85%	96	HRS	17	0	JZ6DBA069I
BIASED MOISTURE	1718	MAX15007CATT/V+	130C, 85%	96	HRS	80	0	JADUBA310IA
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1711	MAX5090CATE+	130C, 85%	96	HRS	80	0 JZ6DBA069G
MOISTURE SOAK	1711	MAX5090CATE+	130C, 85%	96	HRS	80	0 JZ6DBA069H
MOISTURE SOAK	1711	MAX5090CATE+	130C, 85%	96	HRS	80	0 JZ6DBA069I
					Total:	0	
FAILURE RATE:	MTTF (YRS):	103639	QUANTITY:	660	FAILS:	0	FITS: 1.1