

10/27/2017



**RELIABILITY MONITOR REPORT  
FOR**

**MFN B3**

**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:

MAX1745EUB/V	MAX3082EESA+	MAX485CSA+	MAX485ESA+	MAX6175BASA/
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The calculated failure rate for devices using this process is:

**FAILURE RATE:**    **MTTF (YRS): 81485**    **QUANTITY: 538**    **FAILS: 0**    **FITS: 1.4**

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 B3

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1630	MAX3082EESA+	135°C	1000 HRS	80	0	JAGL5U564AX
HIGH TEMP OP LIFE	1641	MAX485CSA+	135°C	1000 HRS	61	0	JABM0A667AX
HIGH TEMP OP LIFE	1710	MAX1745EUB/V+	135°C	1000 HRS	78	0	J3KBIA444DX
HIGH TEMP OP LIFE	1718	MAX6175BASA/V+CPH	135°C	500 HRS	79	0	JAMO6A041KE
HIGH TEMP OP LIFE	1718	MAX6175BASA/V+CPH	135°C	500 HRS	80	0	JAMO6A041KB
HIGH TEMP OP LIFE	1718	MAX6175BASA/V+CPH	135°C	500 HRS	80	0	JAMO6A041KC
HIGH TEMP OP LIFE	1720	MAX485ESA+	135°C	1000 HRS	80	0	JABM03733BX
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1630	MAX3082EESA+	150°C	1000 HRS	80	0	JAGL5U564AX
STORAGE LIFE	1641	MAX485CSA+	150°C	1000 HRS	80	0	JABM0A667AX
STORAGE LIFE	1710	MAX1745EUB/V+	150°C	1000 HRS	80	0	J3KBIA444DX
STORAGE LIFE	1718	MAX6175BASA/V+CPH	150°C	500 HRS	80	0	JAMO6A041KA
STORAGE LIFE	1718	MAX6175BASA/V+CPH	150°C	500 HRS	80	0	JAMO6A041KB
STORAGE LIFE	1718	MAX6175BASA/V+CPH	150°C	500 HRS	80	0	JAMO6A041KC
STORAGE LIFE	1720	MAX485ESA+	150°C	1000 HRS	80	0	JABM03733BX
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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TEMP CYCLE, 5' RAMP, 10' DWELL	1619	MAX3082EESA+	-65C TO +150C (Condition C)	1000	CYS	80	0	JAGL5A532A
TEMP CYCLE, 5' RAMP, 10' DWELL	1630	MAX3082EESA+	-65C TO +150C (Condition C)	1000	CYS	80	0	JAGL5U564AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1641	MAX485CSA+	-65C TO +150C (Condition C)	1000	CYS	80	0	JABM0A667AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1710	MAX1745EUB/V+	-65C TO +150C (Condition C)	1000	CYS	80	0	J3KBIA444DX
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX6175BASA/V+CPH	-65C TO +150C (Condition C)	500	CYS	80	0	JAMO6A041KA
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX6175BASA/V+CPH	-65C TO +150C (Condition C)	1000	CYS	79	0	JAMO6A041KA
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX6175BASA/V+CPH	-65C TO +150C (Condition C)	500	CYS	100	0	JAMO6A041KB
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX6175BASA/V+CPH	-65C TO +150C (Condition C)	1000	CYS	87	0	JAMO6A041KB
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX6175BASA/V+CPH	-65C TO +150C (Condition C)	500	CYS	100	0	JAMO6A041KC
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX6175BASA/V+CPH	-65C TO +150C (Condition C)	1000	CYS	90	0	JAMO6A041KC
TEMP CYCLE, 5' RAMP, 10' DWELL	1720	MAX485ESA+	-65C TO +150C (Condition C)	1000	CYS	80	0	JABM03733BX
<b>Total:</b>							<b>0</b>	

#### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1630	MAX3082EESA+	130C, 85%	96	HRS	80	0	JAGL5U564AX
BIASED MOISTURE	1641	MAX485CSA+	130C, 85%	96	HRS	80	0	JABM0A667AX
BIASED MOISTURE	1710	MAX1745EUB/V+	130C, 85%	96	HRS	80	0	J3KBIA444DX
BIASED MOISTURE	1718	MAX6175BASA/V+CPH	130C, 85%	96	HRS	79	0	JAMO6A041KA
BIASED MOISTURE	1718	MAX6175BASA/V+CPH	130C, 85%	96	HRS	79	0	JAMO6A041KB
BIASED MOISTURE	1718	MAX6175BASA/V+CPH	130C, 85%	96	HRS	79	0	JAMO6A041KC
BIASED MOISTURE	1720	MAX485ESA+	130C, 85%	96	HRS	79	0	JABM03733BX
<b>Total:</b>							<b>0</b>	

#### UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1718	MAX6175BASA/V+CPH	130C, 85%	96	HRS	80	0	JAMO6A041KA
MOISTURE SOAK	1718	MAX6175BASA/V+CPH	130C, 85%	96	HRS	80	0	JAMO6A041KB
MOISTURE SOAK	1718	MAX6175BASA/V+CPH	130C, 85%	96	HRS	80	0	JAMO6A041KC

<b>FAILURE RATE:</b>	<b>MTTF (YRS): 81485</b>	<b>QUANTITY: 538</b>	<b>Total:</b>	<b>0</b>
			<b>FAILS: 0</b>	<b>FITS: 1.4</b>