

1/24/2019



RELIABILITY MONITOR REPORT  
FOR

**WLP Package**

**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 Package Reliability Monitor. The specific assemblies included in this package monitor are:

ASSY SITE	PINS	PACKAGE		
ASE Chung-Li	16	WLP	ASE Chung-Li	16 WLP (Pb-Free)
ASE Chung-Li	28	WLP (Pb-Free)	ASE Kaoshiung	4 TWLP (Pb-Free)
ASE Kaoshiung	6	TWLP (Pb-Free)	ASE Kaoshiung	9 TWLP (Pb-Free)
ASE Kaoshiung	15	TWLP (Pb-Free)	ASE Kaoshiung	36 TWLP (Pb-Free)
ASE Kaoshiung	40	TWLP (Pb-Free)	ASE Kaoshiung	60 TWLP (Pb-Free)
ASE Kaoshiung	91	TWLP (Pb-Free)	ASE Kaoshiung	9 WLP
ASE Kaoshiung	12	WLP	ASE Kaoshiung	40 WLP
ASE Kaoshiung	49	WLP	ASE Kaoshiung	64 WLP
ASE Kaoshiung	70	WLP	ASE Kaoshiung	132 WLP
ASE Kaoshiung	4	WLP (Pb-Free)	ASE Kaoshiung	9 WLP (Pb-Free)
ASE Kaoshiung	12	WLP (Pb-Free)	ASE Kaoshiung	22 WLP (Pb-Free)
ASE Kaoshiung	24	WLP (Pb-Free)	ASE Kaoshiung	25 WLP (Pb-Free)
ASE Kaoshiung	30	WLP (Pb-Free)	ASE Kaoshiung	36 WLP (Pb-Free)
ASE Kaoshiung	40	WLP (Pb-Free)	ASE Kaoshiung	54 WLP (Pb-Free)
ASE Kaoshiung	60	WLP (Pb-Free)	ASE Kaoshiung	61 WLP (Pb-Free)
ASE Kaoshiung	64	WLP (Pb-Free)	ASE Kaoshiung	81 WLP (Pb-Free)
ASE Kaoshiung	132	WLP (Pb-Free)	JCAP	8 TWLP (Pb-Free)
JCAP	60	TWLP (Pb-Free)	JCAP	9 WLP
JCAP	81	WLP	JCAP	4 WLP (Pb-Free)
JCAP	8	WLP (Pb-Free)	JCAP	9 WLP (Pb-Free)
JCAP	12	WLP (Pb-Free)	JCAP	16 WLP (Pb-Free)
JCAP	22	WLP (Pb-Free)	JCAP	25 WLP (Pb-Free)
JCAP	60	WLP (Pb-Free)	JCAP	81 WLP (Pb-Free)
JCAP	156	WLP (Pb-Free)	OUME	9 WLP (Pb-Free)

The calculated failure rate for this assembly is:

**FAILURE RATE: MTTF (YRS): 718453 FITS: 0.2**

The parameters used to calculate this failure rate are as follows:

**Cf: 60%                      Ea: 0.7                      Tu: 25 °C**

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between 10/1/2018 and 12/31/2018

**Assembly Information:**

Package Type: TWLP (Pb-Free)  
 Date Code Range: 1725 to 1833

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE		MAX31876R0TZS+T	125°C	192 HRS	80	0	
HIGH TEMP OP LIFE	1733	MAX98728AENX+T	135°C	1000 HRS	78	0	
HIGH TEMP OP LIFE	1735	MAX40018ANA+	135°C	192 HRS	80	0	
HIGH TEMP OP LIFE	1740	MAX40100ANT+	135°C	1000 HRS	79	0	
HIGH TEMP OP LIFE	1741	MAX40100ANT+	135°C	1000 HRS	80	0	

HIGH TEMP OP LIFE	1743	MAX40016ANL+	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1744	MAX98728AENX+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1745	MAX77324EWTAD+	135°C	192	HRS	48	0
HIGH TEMP OP LIFE	1746	MAX44284HANT+	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1747	MAX40001ANT12+T G7	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1747	MAX98740BENL+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1749	MAX11390AENX+TG 7	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1749	MAX98740BENL+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1749	MAX11390AENX+	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1752	MAX40001ANT12+T G7	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1804	MAX11261ENX+T	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1806	MAX98728BENX+	135°C	192	HRS	91	0
HIGH TEMP OP LIFE	1806	MAX98728BENX+	125°C	1000	HRS	67	0
HIGH TEMP OP LIFE	1806	MAX98728BENX+	125°C	1000	HRS	19	0
HIGH TEMP OP LIFE	1806	MAX98740BENL+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1807	MAX44284HANT+TG 7	125°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1807	MAX40002ANS+T	125°C	500	HRS	80	0
HIGH TEMP OP LIFE	1810	MAX44284HANT+TG 7	135°C	500	HRS	80	0
HIGH TEMP OP LIFE	1810	MAX44284HANT+TG 7	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1811	MAX44284HANT+TG 7	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1814	MAX44284HANT+TG 7	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1814	MAX44284HANT+TG 7	135°C	1000	HRS	80	0
<b>Total:</b>						<b>0</b>	<b>0</b>

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#### STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1733	MAX98728AENX+T	150°C	1000	HRS	80	0
STORAGE LIFE	1740	MAX40100ANT+	150°C	1000	HRS	80	0
STORAGE LIFE	1741	MAX40100ANT+	150°C	1000	HRS	80	0
STORAGE LIFE	1744	MAX98728AENX+T	150°C	1000	HRS	80	0
STORAGE LIFE	1746	MAX44284HANT+	150°C	1000	HRS	80	0
STORAGE LIFE	1747	MAX40001ANT12+T G7	150°C	1000	HRS	80	0
STORAGE LIFE	1747	MAX98740BENL+T	150°C	1000	HRS	80	0
STORAGE LIFE	1749	MAX11390AENX+TG 7	150°C	1000	HRS	80	0

STORAGE LIFE	1749	MAX98740BENL+T	150°C	1000	HRS	80	0
STORAGE LIFE	1752	MAX40001ANT12+T G7	150°C	1000	HRS	80	0
STORAGE LIFE	1806	MAX98728BENX+	150°C	1000	HRS	90	0
STORAGE LIFE	1806	MAX98740BENL+T	150°C	1000	HRS	80	0
STORAGE LIFE	1807	MAX44284HANT+TG 7	150°C	500	HRS	80	0
STORAGE LIFE	1810	MAX44284HANT+TG 7	150°C	1000	HRS	80	0
STORAGE LIFE	1810	MAX44284HANT+TG 7	150°C	1000	HRS	80	0
STORAGE LIFE	1811	MAX44284HANT+TG 7	150°C	1000	HRS	80	0
STORAGE LIFE	1814	MAX44284HANT+TG 7	150°C	1000	HRS	80	0
STORAGE LIFE	1814	MAX44284HANT+TG 7	150°C	1000	HRS	80	0
<b>Total:</b>						<b>0</b>	<b>0</b>

### TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX20319ENL+TG7	-40C TO +125C (Condition G)	CYS	80	0	
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX40004ANS02+G 7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1725	MAX40004ANS02+T G7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1726	MAX40100ANT+	-40C TO +125C (Condition G)	500	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1733	MAX40004ANS02+G 7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1735	MAX20319ENL+G7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1737	MAX20319ENL+TG7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1738	MAX20319ENL+TG7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1739	MAX20319ENL+TG7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1739	MAX20319ENL+TG7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1739	MAX20319ENL+TG7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1740	MAX40100ANT+	-40C TO +125C (Condition G)	500	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1741	MAX20319ENL+TG7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1741	MAX40100ANT+	-40C TO +125C (Condition G)	500	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1745	MAX40001ANT12+T G7	-40C TO +125C (Condition G)	500	CYS	80	0

TEMP CYCLE, 15' RAMP, 15' DWELL	1746	MAX44284HANT+	-40C TO +125C (Condition G)	1000	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1749	MAX40001ANT12+TG7	-40C TO +125C (Condition G)	1000	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1749	MAX11390AENX+TG7	-40C TO +125C (Condition G)	1000	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1750	MAX40001ANT12+TG7	-40C TO +125C (Condition G)	500	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1803	MAX40004ANS02+TG7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1804	MAX20319ENL+TG7	-40C TO +125C (Condition G)		CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1809	MAX20319ENL+TG7	-40C TO +125C (Condition G)		CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1809	MAX20319ENL+TG7	-40C TO +125C (Condition G)		CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1810	MAX44284HANT+TG7	-40C TO +125C (Condition G)	1000	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1833	MAX40004ANS02+TG7	-40C TO +125C (Condition G)	100	CYS	80	0
						<b>Total:</b>	<b>0</b>

#### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1726	MAX40100ANT+	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1740	MAX40100ANT+	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1745	MAX98728AENX+T	130C, 85% R.H.	130	HRS	80	0
BIASED MOISTURE	1745	MAX98728AENX+T	130C, 85% R.H.		HRS	41	0
BIASED MOISTURE	1748	MAX40100ANT+	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1749	MAX40001ANT12+TG7	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1750	MAX40001ANT12+TG7	85 C/85% R.H.	96	HRS	80	0
						<b>Total:</b>	<b>0</b>

#### UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	1740	MAX40100ANT+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1746	MAX44284HANT+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1749	MAX11390AENX+TG7	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1749	MAX11390AENX+TG7	85C, 85% R.H.	1000	HRS	79	0
MOISTURE SOAK	1750	MAX40001ANT12+TG7	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1810	MAX44284HANT+TG7	130C, 85% R.H.	96	HRS	80	0
						<b>Total:</b>	<b>0</b>

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**Assembly Information:**

Package Type: WLP  
Date Code Range: 1743 to 1835

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1743	MAX77714EWC+	125°C	192 HRS	32	0	
HIGH TEMP OP LIFE	1750	MAX98357BEWL+TG 7	125°C	500 HRS	48	0	
HIGH TEMP OP LIFE	1750	MAX98357BEWL+TG 7	125°C	192 HRS	32	0	
HIGH TEMP OP LIFE	1802	MAX77511SEWB+T	125°C	1000 HRS	32	0	
HIGH TEMP OP LIFE	1802	MAX77511SEWB+T	125°C	1000 HRS	47	0	
HIGH TEMP OP LIFE	1803	MAX98730EWJ+TCG T	125°C	500 HRS	80	0	
HIGH TEMP OP LIFE	1808	MAX20330EWA+T	125°C	192 HRS	78	0	
HIGH TEMP OP LIFE	1810	MAX22445FAWE+	125°C	192 HRS	80	0	
HIGH TEMP OP LIFE	1810	MAX20327EWL+	125°C	192 HRS	80	0	
HIGH TEMP OP LIFE	1811	MAX16147WM75SA+ T	125°C	192 HRS	80	0	
HIGH TEMP OP LIFE	1814	MAX20331EWL+T	125°C	192 HRS	80	0	
HIGH TEMP OP LIFE	1826	MAX77705CEWN+T	125°C	192 HRS	80	0	
<b>Total:</b>						<b>0</b>	

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1803	MAX98357BEWL+TC HB	-65C TO +150C (Condition C)	CYS	1	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1803	MAX98730EWJ+TCG T	-65C TO +150C (Condition C)	CYS	80	0	
TEMP CYCLE, 15' RAMP, 15' DWELL	1804	MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100 CYS	80	0	
TEMP CYCLE, 15' RAMP, 15' DWELL	1804	MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100 CYS	80	0	
TEMP CYCLE, 15' RAMP, 15' DWELL	1804	MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX98357BEWL+TC HB	-65C TO +150C (Condition C)	CYS	3	0	
TEMP CYCLE, 15' RAMP, 15' DWELL	1805	MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100 CYS	80	0	
TEMP CYCLE, 15' RAMP, 15' DWELL	1805	MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100 CYS	80	0	
TEMP CYCLE, 15' RAMP, 15' DWELL	1833	MAX77503DEWC+T G7	-40C TO +125C (Condition G)	500 CYS	80	0	
TEMP CYCLE, 15' RAMP, 15' DWELL	1833	MAX77503DEWC+T G7	-40C TO +125C (Condition G)	500 CYS	80	0	

TEMP CYCLE, 15' RAMP, 15' DWELL	1835	MAX77503DEWC+T G7	-40C TO +125C (Condition G)	500	CYS	80	0
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1810	MAX77503DEWC+T	110C, 85% R.H.	96	HRS	74	0
BIASED MOISTURE	1833	MAX77503DEWC+T G7	110C, 85% R.H.	264	HRS	80	0
BIASED MOISTURE	1833	MAX77503DEWC+T G7	110C, 85% R.H.	264	HRS	80	0
BIASED MOISTURE	1833	MAX77503DEWC+T G7	130C, 85% R.H.	200	HRS	75	0
BIASED MOISTURE	1834	MAX77503DEWC+T G7	110C, 85% R.H.	264	HRS	80	0
BIASED MOISTURE	1835	MAX77503DEWC+T G7	110C, 85% R.H.	264	HRS	80	0
BIASED MOISTURE	1835	MAX77503DEWC+T G7	130C, 85% R.H.	200	HRS	74	0
<b>Total:</b>						<b>0</b>	

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	1833	MAX77503DEWC+T G7	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1835	MAX77503DEWC+T G7	130C, 85% R.H.	96	HRS	80	0
<b>Total:</b>						<b>0</b>	

**Assembly Information:**

Package Type: WLP (Pb-Free)  
Date Code Range: 1613 to 1938

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE		MAX40002ANS+T	125°C	1000	HRS	80	0
HIGH TEMP OP LIFE		MAX14748BEWW+T	125°C	72	HRS	32	0
HIGH TEMP OP LIFE		MAX77860EWG+T	125°C	192	HRS	47	0
HIGH TEMP OP LIFE	1718	MAX30110ENWG+	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1718	MAX30112EWG+	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1723	MAX14813EWX+	135°C	2000	HRS	68	0
HIGH TEMP OP LIFE	1723	MAX14813EWX+	135°C	2000	HRS	76	0
HIGH TEMP OP LIFE	1723	MAX14813EWX+	135°C	2000	HRS	78	0
HIGH TEMP OP LIFE	1734	MAX15053BEWL+G7	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1740	MAX77651AEWV+	135°C	1000	HRS	72	0
HIGH TEMP OP LIFE	1741	MAX14882AWE+	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1743	MAX31341EWC+T	135°C	192	HRS	80	0

HIGH TEMP OP LIFE	1744	MAX77705FEWN+	135°C	192	HRS	62	0
HIGH TEMP OP LIFE	1744	MAX77705FEWN+	135°C	192	HRS	18	0
HIGH TEMP OP LIFE	1746	MAX98373EWA+T	135°C	1000	HRS	96	0
HIGH TEMP OP LIFE	1748	MAX98357BEWL+TG 7	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1749	MAX98357BEWL+TG 7	135°C	1000	HRS	79	0
HIGH TEMP OP LIFE	1750	MAX98357BEWL+TG 7	125°C	1000	HRS	48	0
HIGH TEMP OP LIFE	1750	MAX98357BEWL+TG 7	125°C	1000	HRS	32	0
HIGH TEMP OP LIFE	1751	MAX20328AEWA+T	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1805	MAX77705FEWN+T	135°C	500	HRS	80	0
HIGH TEMP OP LIFE	1806	MAX20332EWE+T	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1809	MAX77503DEWC+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1810	MAX77503DEWC+T	125°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1811	MAX77503DEWC+T	125°C	1000	HRS	79	0
HIGH TEMP OP LIFE	1813	MAX77503DEWC+T	125°C	1000	HRS	48	0
HIGH TEMP OP LIFE	1813	MAX77503DEWC+T	125°C	1000	HRS	48	0
HIGH TEMP OP LIFE	1813	MAX77503DEWC+T	125°C	1000	HRS	36	0
HIGH TEMP OP LIFE	1813	MAX77503DEWC+T	125°C	1000	HRS	35	0
HIGH TEMP OP LIFE	1826	MAX77503EEWC+T	125°C	192	HRS	80	0
HIGH TEMP OP LIFE	1833	MAX77705CEWN+	125°C	192	HRS	80	0
HIGH TEMP OP LIFE	1837	MAX9025EWT+TG7	125°C	500	HRS	80	0
HIGH TEMP OP LIFE	1837	MAX9025EWT+TG7	125°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1838	MAXQ699	125°C	192	HRS	80	0
HIGH TEMP OP LIFE	1838	MAXQ699	125°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1842	MAX97937EWX+T	125°C	192	HRS	80	0
HIGH TEMP OP LIFE	1938	MAXQ699	125°C	1000	HRS	79	0
<b>Total:</b>							<b>0</b>

#### PACKAGE TESTS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
CONVECTION REFLOW	1837	MAX77711AEWB+	260C +0/-5C	PASS	150	0	
CONVECTION REFLOW	1838	MAX77711AEWB+	260C +0/-5C	PASS	150	0	
CONVECTION REFLOW	1839	MAX77711AEWB+	260C +0/-5C	PASS	150	0	
<b>Total:</b>							<b>0</b>

#### STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1652	MAX77650CEWV+T	150°C	1000 HRS	79	0	
STORAGE LIFE	1734	MAX15053BEWL+G7	150°C	1000 HRS	80	0	



STORAGE LIFE	1738	MAX8986EWG+T	150°C	1000	HRS	80	0
STORAGE LIFE	1738	MAX8986EWG+T	150°C	1000	HRS	77	0
STORAGE LIFE	1738	MAX8986EWG+T	150°C	1000	HRS	80	0
STORAGE LIFE	1743	MAX98357BEWL+G7	150°C	1000	HRS	80	0
STORAGE LIFE	1748	MAX98357BEWL+TG 7	150°C	1000	HRS	80	0
STORAGE LIFE	1749	MAX98357BEWL+TG 7	150°C	1000	HRS	80	0
STORAGE LIFE	1752	MAX9634HEWS+TG 7	150°C	1000	HRS	80	0
STORAGE LIFE	1809	MAX77503DEWC+T	150°C	1000	HRS	80	0
STORAGE LIFE	1810	MAX77503DEWC+T	150°C	1000	HRS	79	0
STORAGE LIFE	1811	MAX77503DEWC+T	150°C	1000	HRS	80	0
STORAGE LIFE	1838	MAXQ699	150°C	1000	HRS	80	0
STORAGE LIFE	1838	MAXQ699	150°C	1000	HRS	80	0
STORAGE LIFE	1838	MAXQ699	150°C	1000	HRS	79	0
STORAGE LIFE	1838	MAXQ699	150°C	1000	HRS	80	0
<b>Total:</b>						<b>0</b>	<b>0</b>

#### TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)		CYS	79	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)		CYS	75	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)		CYS	79	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL		MAX44284HANT+TG 7	-40C TO +125C (Condition G)	100	CYS	80	0

TEMP CYCLE, 15' RAMP, 15' DWELL		MAX44284HANT+TG 7	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1613	MAX77843EWW+	-40C TO +125C (Condition G)	1000	CYS	82	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1613	MAX77843EWW+	-40C TO +125C (Condition G)	500	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1707	MAX77796EWI+T	-40C TO +125C (Condition G)	1000	CYS	40	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1707	MAX77796EWI+T	-40C TO +125C (Condition G)	1000	CYS	35	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1710	MAX77796EWI+T	-40C TO +125C (Condition G)	250	CYS	40	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1710	MAX77796EWI+T	-40C TO +125C (Condition G)	1000	CYS	38	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1710	MAX77796EWI+T	-65C TO +150C (Condition C)	1000	CYS	50	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1717	MAX15053EWL+T	-40C TO +125C (Condition G)	850	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1726	MAX9634HEWS+TG 7	-40C TO +125C (Condition G)	1000	CYS	83	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1726	MAX9634HEWS+TG 7	-40C TO +125C (Condition G)	1000	CYS	83	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1727	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1728	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1728	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1731	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1733	MAX98357BEWL+TC HB	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1734	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1734	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1734	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1734	MAX17262REWL+	-40C TO +125C (Condition G)	1000	CYS	77	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1734	MAX15053BEWL+G7	-40C TO +125C (Condition G)	850	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1734	MAX15053BEWL+G7	-40C TO +125C (Condition G)	500	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1737	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1737	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1738	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1738	MAX98304DEWL+T	-40C TO +125C (Condition G)	100	CYS	80	0



TEMP CYCLE, 15' RAMP, 15' DWELL	1803	MAX98357BEWL+TC -40C TO +125C (Condition G) HB	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1804	MAX98357BEWL+TC -40C TO +125C (Condition G) HB	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1804	MAX98357BEWL+TC -40C TO +125C (Condition G) HB	CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1804	MAX9634FEWS+TG -40C TO +125C (Condition G) 7	1000 CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1804	MAX77705FEWN+T -40C TO +125C (Condition G)	500 CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1805	MAX77705FEWN+T -40C TO +125C (Condition G)	500 CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1809	MAX77503DEWC+T -40C TO +125C (Condition G)	1000 CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1810	MAX77503DEWC+T -40C TO +125C (Condition G)	1000 CYS	79	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1810	MAX77503DEWC+T -65C TO +150C (Condition C)	CYS	2	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1811	MAX77503DEWC+T -40C TO +125C (Condition G)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1821	MAX44284HANT+TG -65C TO +150C (Condition C) 7	100 CYS	80	0
TEMP CYCLE, 15' RAMP, 15' DWELL	1840	MAX44284HANT+TG -40C TO +125C (Condition G) 7	100 CYS	80	0
				<b>Total:</b>	<b>0</b>

#### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1652	MAX77650CEWV+T	85 C/85% R.H.	96 HRS	12	0	
BIASED MOISTURE	1652	MAX77650CEWV+T	85 C/85% R.H.	96 HRS	60	0	
BIASED MOISTURE	1720	MAX77650CEWV+T	85 C/85% R.H.	96 HRS	8	0	
BIASED MOISTURE	1726	MAX9634HEWS+TG 7	130C, 85% R.H.	HRS	82	0	
BIASED MOISTURE	1734	MAX17262REWL+	85 C/85% R.H.	96 HRS	77	0	
BIASED MOISTURE	1734	MAX15053BEWL+G7	85 C/85% R.H.	96 HRS	80	0	
BIASED MOISTURE	1738	MAX8986EWG+T	110C, 85% R.H.	264 HRS	80	0	
BIASED MOISTURE	1752	MAX9634HEWS+TG 7	130C, 85% R.H.	264 HRS	80	0	
BIASED MOISTURE	1752	MAX9634HEWS+TG 7	130C, 85% R.H.	96 HRS	80	0	
BIASED MOISTURE	1804	MAX9634FEWS+TG 7	110C, 85% R.H.	264 HRS	80	0	
BIASED MOISTURE	1809	MAX77503DEWC+T	110C, 85% R.H.	264 HRS	79	0	
BIASED MOISTURE	1810	MAX77503DEWC+T	110C, 85% R.H.	96 HRS	66	0	
BIASED MOISTURE	1810	MAX77503DEWC+T	110C, 85% R.H.	HRS	80	0	
BIASED MOISTURE	1810	MAX77503DEWC+T	85 C/85% R.H.	1000 CYS	79	0	
BIASED MOISTURE	1811	MAX77503DEWC+T	110C, 85% R.H.	264 HRS	79	0	
BIASED MOISTURE	1811	MAX77503DEWC+T	130C, 85% R.H.	96 HRS	9	0	

BIASED MOISTURE	1811	MAX77503DEWC+T	85 C/85% R.H.	1000	CYS	78	0
BIASED MOISTURE	1838	MAX777705FEWN+	110C, 85% R.H.	264	HRS	75	0
BIASED MOISTURE	1838	MAX777705FEWN+	110C, 85% R.H.	264	HRS	52	0
BIASED MOISTURE	1838	MAX777705FEWN+	110C, 85% R.H.	264	HRS	58	0
BIASED MOISTURE	1838	MAX777705FEWN+	110C, 85% R.H.	264	HRS	78	0
BIASED MOISTURE	1838	MAX77705FEWN+T	110C, 85% R.H.	264	HRS	74	0
<b>Total:</b>							<b>0</b>

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**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK		MAX44284HANT+TG 7	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK		MAX44284HANT+TG 7	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1613	MAX77843EWW+	130C, 85% R.H.	264	HRS	80	0
MOISTURE SOAK	1613	MAX77843EWW+	130C, 85% R.H.	264	HRS	80	0
MOISTURE SOAK	1613	MAX77843EWW+	130C, 85% R.H.	264	HRS	80	0
MOISTURE SOAK	1732	MAX98928EWX+T	130C, 85% R.H.	96	HRS	33	0
MOISTURE SOAK	1732	MAX98928EWX+T	130C, 85% R.H.	96	HRS	33	0
MOISTURE SOAK	1732	MAX98928EWX+T	130C, 85% R.H.	96	HRS	33	0
MOISTURE SOAK	1734	MAX15053BEWL+G7	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1738	MAX8986EWG+T	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1804	MAX9634FEWS+TG 7	130C, 85% R.H.		HRS	79	0
MOISTURE SOAK	1809	MAX77503DEWC+T	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1810	MAX77503DEWC+T	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1811	MAX77503DEWC+T	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1840	MAX44284HANT+TG 7	130C, 85% R.H.	96	HRS	80	0
<b>Total:</b>							<b>0</b>

**FAILURE RATE: MTTF (YRS): 718453 FITS: 0.2**