

**10/27/2017**



**RELIABILITY MONITOR REPORT  
FOR**

**DFN 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		TDFN (Pb-Free)	ASE Chung-Li	6 TDFN (Pb-Free)
ASE Chung-Li	8	TDFN (Pb-Free)	ASE Chung-Li	10 TDFN (Pb-Free)
ASE Chung-Li	14	TDFN (Pb-Free)	ASE Chung-Li	10 TDFN w/Cu-Wire (Pb-Free)
ASE Chung-Li	12	TDFN w/Cu-Wire (Pb-Free)	ASE Chung-Li	6 uDFN (Pb-Free)
UTAC DG	6	TDFN (Pb-Free)	UTL (NSEB) UTAC	6 TDFN (Pb-Free)
UTL (NSEB) UTAC	8	TDFN (Pb-Free)	UTL (NSEB) UTAC	10 TDFN (Pb-Free)
UTL (NSEB) UTAC	16	TDFN (Pb-Free)		

The calculated failure rate for this assembly is:

**FAILURE RATE: MTTF (YRS): 360376 FITS: 0.3**

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

**Cf: 60% Ea: 0.7 Tu: 25 °C**

The reliability data follows. A 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 7/1/2017 and 9/30/2017.

---

**Assembly Information:**

Package Type: TDFN (Pb-Free)

Date Code Range: 1517 to 1733

---

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1517	MAX11198ATE+T	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1517	MAX11198ATE+T	135°C	1000 HRS	79	0	
HIGH TEMP OP LIFE	1527	MAX6769TALD2/VY+	135°C	1000 HRS	40	0	
HIGH TEMP OP LIFE	1542	MAX16924GTMVY+	135°C	1000 HRS	114	0	
HIGH TEMP OP LIFE	1545	MAX16973SATB33/V+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1545	MAX16973SATB33/V+	135°C	500 HRS	80	0	
HIGH TEMP OP LIFE	1545	MAX16973SATB33/V+	135°C	500 HRS	80	0	
HIGH TEMP OP LIFE	1618	MAX8902BATA+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1620	MAX12000ETB+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1624	MAX15027ATB/V+T	135°C	1000 HRS	30	0	
HIGH TEMP OP LIFE	1624	MAX15027ATB/V+T	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1630	MAX9814ETD+	135°C	1000 HRS	48	0	
HIGH TEMP OP LIFE	1630	MAX9814ETD+	135°C	1000 HRS	34	0	
HIGH TEMP OP LIFE	1643	MAX17501GATB+T	135°C	1000 HRS	79	0	
HIGH TEMP OP LIFE	1644	MAX17501GATB+T	135°C	1000 HRS	80	0	

HIGH TEMP OP LIFE	1644	MAX15006AATT+	135°C	1000	HRS	47	0
HIGH TEMP OP LIFE	1644	MAX15006AATT+	135°C	1000	HRS	33	0
HIGH TEMP OP LIFE	1644	MAX98306ETD+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1648	MAX17055ETB+T	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1701	MAX9814ETD+	135°C	1000	HRS	47	0
HIGH TEMP OP LIFE	1701	MAX9814ETD+	135°C	1000	HRS	33	0
HIGH TEMP OP LIFE	1703	MAX15006AATT+	135°C	1000	HRS	47	0
HIGH TEMP OP LIFE	1703	MAX15006AATT+	135°C	1000	HRS	33	0
HIGH TEMP OP LIFE	1704	MAX16910ATA9/V+T CB	135°C	192	HRS	30	0
HIGH TEMP OP LIFE	1716	MAX5054BATA+T	135°C	1000	HRS	48	0
HIGH TEMP OP LIFE	1716	MAX5054BATA+T	135°C	1000	HRS	32	0
HIGH TEMP OP LIFE	1718	MAX15007CATT/V+	135°C	1000	HRS	47	0
HIGH TEMP OP LIFE	1718	MAX15007CATT/V+	135°C	1000	HRS	33	0
HIGH TEMP OP LIFE	1728	MAX9814ETD+	135°C	1000	HRS	46	0
HIGH TEMP OP LIFE	1729	DS28E38	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1731	MAX17502GATB+T	135°C	500	HRS	80	0
<b>Total:</b>						<b>0</b>	<b>0</b>

#### PRECONDITIONING LEVEL 1

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
CONVECTION REFLOW	1630	MAX9814ETD+	260C +0/-5C	61	PASS	320	0
CONVECTION REFLOW	1716	MAX5054BATA+T	260C +0/-5C		PASS	320	0
CONVECTION REFLOW	1718	MAX15007CATT/V+	260C +0/-5C		PASS	320	0
CONVECTION REFLOW	1720	MAX17024ETD+TCM N	260C +0/-5C		PASS	240	0
CONVECTION REFLOW	1722	MAX17024ETD+TCM N	260C +0/-5C		PASS	240	0
CONVECTION REFLOW	1731	MAX17502GATB+T	260C +0/-5C		PASS	400	0
CONVECTION REFLOW	1733	MAX98306ETD+T	260C +0/-5C		PASS	320	0
<b>Total:</b>						<b>0</b>	<b>0</b>

#### STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1545	MAX16973SATB33/V +	150°C	1500	HRS	90	0
STORAGE LIFE	1545	MAX16973SATB33/V +	150°C	500	HRS	90	0
STORAGE LIFE	1545	MAX16973SATB33/V +	150°C	1000	HRS	90	0
STORAGE LIFE	1545	MAX16973SATB33/V +	150°C	1500	HRS	88	0
STORAGE LIFE	1545	MAX16973SATB33/V +	150°C	1000	HRS	88	0
STORAGE LIFE	1545	MAX16973SATB33/V +	150°C	1500	HRS	85	0

STORAGE LIFE	1545	MAX16973SATB33/V	150°C	500	HRS	90	0
		+					
STORAGE LIFE	1545	MAX16973SATB33/V	150°C	1000	HRS	90	0
		+					
STORAGE LIFE	1618	MAX8902BATA+	150°C	1000	HRS	80	0
STORAGE LIFE	1620	MAX12000ETB+	150°C	1000	HRS	80	0
STORAGE LIFE	1624	MAX15027ATB/V+T	150°C	500	HRS	80	0
STORAGE LIFE	1624	MAX15027ATB/V+T	150°C	500	HRS	80	0
STORAGE LIFE	1624	MAX15027ATB/V+T	150°C	1000	HRS	80	0
STORAGE LIFE	1630	MAX9814ETD+	150°C	1000	HRS	80	0
STORAGE LIFE	1643	MAX17502GATB+T	150°C	1000	HRS	80	0
STORAGE LIFE	1643	MAX17502GATB+T	150°C	500	HRS	80	0
STORAGE LIFE	1644	MAX17502GATB+	150°C	1000	HRS	80	0
STORAGE LIFE	1644	MAX15006AATT+	150°C	1000	HRS	80	0
STORAGE LIFE	1644	MAX98306ETD+T	150°C	1000	HRS	80	0
STORAGE LIFE	1701	MAX9814ETD+	150°C	1000	HRS	80	0
STORAGE LIFE	1703	MAX15006AATT+	150°C	1000	HRS	80	0
STORAGE LIFE	1705	MAX14644ETA/V+T	150°C	500	HRS	80	0
STORAGE LIFE	1705	MAX14644ETA/V+T	150°C	500	HRS	80	0
STORAGE LIFE	1705	MAX14644ETA/V+T	150°C	500	HRS	80	0
STORAGE LIFE	1712	MAX14644ETA/V+T	150°C	500	HRS	80	0
STORAGE LIFE	1712	MAX14644ETA/V+T	150°C	500	HRS	80	0
STORAGE LIFE	1712	MAX14644ETA/V+T	150°C	500	HRS	80	0
STORAGE LIFE	1716	MAX5054BATA+T	150°C	1000	HRS	80	0
STORAGE LIFE	1718	MAX15007CATT/V+	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, 5' RAMP, 10' DWELL	1545	MAX16973SATB33/V	-65C TO +150C (Condition C)	1000	CYS	100	0
		+					
TEMP CYCLE, 5' RAMP, 10' DWELL	1545	MAX16973SATB33/V	-65C TO +150C (Condition C)	1000	CYS	100	0
		+					
TEMP CYCLE, 5' RAMP, 10' DWELL	1545	MAX16973SATB33/V	-65C TO +150C (Condition C)	400	CYS	96	0
		+					
TEMP CYCLE, 5' RAMP, 10' DWELL	1613	MAX17024ETD+CMN	-65C TO +150C (Condition C)	100	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1614	MAX17024ETD+CMN	-65C TO +150C (Condition C)	100	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1616	MAX17024ETD+CMN	-65C TO +150C (Condition C)	100	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1616	MAX17024ETD+CMN	-65C TO +150C (Condition C)	100	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1618	MAX8902BATA+	-65C TO +150C (Condition C)	1000	CYS	80	0

TEMP CYCLE, 5' RAMP, 10' DWELL	1620	MAX12000ETB+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1621	MAX17024ETD+CMN	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1622	MAX17024ETD+CMN	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1624	MAX15027ATB/V+T	-65C TO +150C (Condition C)	1000 CYS	98	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1624	MAX15027ATB/V+T	-65C TO +150C (Condition C)	1000 CYS	100	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1624	MAX15027ATB/V+T	-65C TO +150C (Condition C)	1000 CYS	100	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1630	MAX9814ETD+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1632	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1633	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1640	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1643	MAX17502GATB+T	-65C TO +150C (Condition C)	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1644	MAX17502GATB+T	-65C TO +150C (Condition C)	200 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1644	MAX15006AATT+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1644	MAX98306ETD+T	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1645	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1646	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1649	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1649	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1650	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1652	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1652	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1701	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1701	MAX9814ETD+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1703	MAX15006AATT+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1705	MAX14644ETA/V+T	-65C TO +150C (Condition C)	500 CYS	90	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1705	MAX14644ETA/V+T	-65C TO +150C (Condition C)	500 CYS	90	0

TEMP CYCLE, 5' RAMP, 10' DWELL	1705	MAX14644ETA/V+T	-65C TO +150C (Condition C)	500	CYS	90	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1706	MAX17502GATB+	-65C TO +150C (Condition C)	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1706	MAX17502GATB+	-65C TO +150C (Condition C)	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1706	MAX17502GATB+	-65C TO +150C (Condition C)	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1711	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1712	MAX14644ETA/V+T	-65C TO +150C (Condition C)	500	CYS	90	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1712	MAX14644ETA/V+T	-65C TO +150C (Condition C)	500	CYS	90	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1712	MAX14644ETA/V+T	-65C TO +150C (Condition C)	500	CYS	90	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1714	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1716	MAX5054BATA+T	-65C TO +150C (Condition C)	1000	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX15007CATT/V+	-65C TO +150C (Condition C)	1000	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1720	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1722	MAX17024ETD+TCM N	-65C TO +150C (Condition C)	100	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1731	MAX17502GATB+T	-65C TO +150C (Condition C)	500	CYS	80	0

**Total: 0**

### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1545	MAX16973SATB33/V +	130C, 85% R.H.	96	HRS	60	0
BIASED MOISTURE	1620	MAX12000ETB+	130C, 85% R.H.	96	HRS	60	0
BIASED MOISTURE	1620	MAX12000ETB+	130C, 85% R.H.	96	HRS	20	0
BIASED MOISTURE	1630	MAX9814ETD+	130C, 85% R.H.	96	HRS	79	0
BIASED MOISTURE	1643	MAX17502GATB+	130C, 85% R.H.	100	HRS	80	0
BIASED MOISTURE	1644	MAX15006AATT+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1644	MAX98306ETD+T	130C, 85% R.H.	96	HRS	79	0
BIASED MOISTURE	1701	MAX9814ETD+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1703	MAX15006AATT+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1705	MAX14644ETA/V+T	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1705	MAX14644ETA/V+T	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1712	MAX14644ETA/V+T	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1712	MAX14644ETA/V+T	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1712	MAX14644ETA/V+T	130C, 85% R.H.	96	HRS	80	0

BIASED MOISTURE	1716	MAX5054BATA+T	130C, 85% R.H.	96	HRS	78	0
BIASED MOISTURE	1718	MAX15007CATT/V+	130C, 85% R.H.	96	HRS	80	0
<b>Total:</b>						<b>0</b>	<b>0</b>

---

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	1545	MAX16973SATB33/V	130C, 85% R.H.	500	HRS	100	0
		+					
MOISTURE SOAK	1545	MAX16973SATB33/V	130C, 85% R.H.	200	HRS	100	0
		+					
MOISTURE SOAK	1545	MAX16973SATB33/V	130C, 85% R.H.	200	HRS	100	0
		+					
MOISTURE SOAK	1545	MAX16973SATB33/V	130C, 85% R.H.	500	HRS	99	0
		+					
MOISTURE SOAK	1545	MAX16973SATB33/V	130C, 85% R.H.	500	HRS	95	0
		+					
MOISTURE SOAK	1613	MAX17024ETD+CMN	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1614	MAX17024ETD+CMN	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1616	MAX17024ETD+CMN	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1616	MAX17024ETD+CMN	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1621	MAX17024ETD+CMN	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1632	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	79	0
		N					
MOISTURE SOAK	1633	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1640	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1643	MAX17502GATB+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1644	MAX17502GATB+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1645	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1646	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1649	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1649	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1652	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1652	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1701	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1711	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1714	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					
MOISTURE SOAK	1720	MAX17024ETD+TCM	130C, 85% R.H.	96	HRS	80	0
		N					

MOISTURE SOAK	1722	MAX17024ETD+TCM 130C, 85% R.H. N	96	HRS	80	0
MOISTURE SOAK	1731	MAX17502GATB+T 130C, 85% R.H.	100	HRS	80	0
<b>Total:</b>						<b>0</b>

**Assembly Information:**

Package Type: TDFN w/Cu-Wire (Pb-Free)  
Date Code Range: 1615 to 1701

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1615	MAX17761ATC+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1635	MAX17572ATC+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1635	MAX17572ATC+	135°C	500 HRS	80	0	
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1623	MAX77596ETBC+CM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1625	MAX77596ETBC+CM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1627	MAX77596ETBC+CM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1633	MAX77596ETBC+CM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1637	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1639	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1642	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1643	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1644	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1645	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1646	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1648	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1649	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1650	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1651	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1701	MAX7759ETBC+TCM R	-65C TO +150C (Condition C)	100 CYS	80	0	



TEMP CYCLE, 5' RAMP, 10' DWELL	1701	MAX7759ETBC+TCM -65C TO +150C (Condition C) R	100	CYS	80	0
<b>Total:</b>						<b>0</b>

### Assembly Information:

Package Type: uDFN (Pb-Free)  
Date Code Range: 1414 to 1642

### OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1414	MAX9938FELT+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1414	MAX9938FELT+	135°C	500 HRS	80	0	
HIGH TEMP OP LIFE	1642	MAX17222ELT+T	135°C	192 HRS	80	0	
HIGH TEMP OP LIFE	1642	MAX17222ELT+	135°C	192 HRS	80	0	
<b>Total:</b>						<b>0</b>	

### STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1414	MAX9938FELT+	150°C	1000 HRS	80	0	
STORAGE LIFE	1422	MAX9938FELT+	150°C	1000 HRS	80	0	
STORAGE LIFE	1505	MAX9938FELT+	150°C	1000 HRS	80	0	
<b>Total:</b>						<b>0</b>	

### TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1414	MAX9938FELT+	-65C TO +150C (Condition C)	500 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1422	MAX9938FELT+	-65C TO +150C (Condition C)	500 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1505	MAX9938FELT+	-65C TO +150C (Condition C)	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	1414	MAX9938FELT+	130C, 85% R.H.	96 HRS	80	0	
BIASED MOISTURE	1422	MAX9938FELT+	130C, 85% R.H.	96 HRS	20	0	
BIASED MOISTURE	1505	MAX9938FELT+	130C, 85% R.H.	96 HRS	79	0	
<b>Total:</b>						<b>0</b>	

### UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	1414	MAX9938FELT+	130C, 85% R.H.	96 HRS	80	0	
MOISTURE SOAK	1422	MAX9938FELT+	130C, 85% R.H.	96 HRS	80	0	
MOISTURE SOAK	1505	MAX9938FELT+	130C, 85% R.H.	96 HRS	80	0	
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 360376 FITS: 0.3**