

**RELIABILITY MONITOR REPORT  
FOR**

**PLCC Package**

**Dallas Semiconductor**

**4401 South Beltwood Parkway  
Dallas, TX 75244-3292**

**This Report was prepared by  
Dallas Semiconductor 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:

<b>ASSY SITE</b>	<b>PINS PACKAGE</b>
ATP (Amkor, PI)	44 PLCC

The calculated failure rate for this assembly is:

**FAILURE RATE: MTTF (YRS): 18096 FITS: 6.3**

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 and

**Assembly Information:**

Package Type: PLCC  
 Flammability: UL 94-V0  
 Date Code Range: 0642 to 0642

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0642	DS87C520	125C, 5.5 VOLTS	1000 HRS	77	0	
			125C, 5.5 VOLTS	1000 HRS	77	0	
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0642	DS87C520	150C	1000 HRS	77	0	
			150C	1000 HRS	77	0	
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0642	DS87C520	-55C TO 125C	1000 CYS	77	0	
			-55C TO 125C	1000 CYS	77	0	
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST	0642	DS87C520	130C, 85%R.H.,5.5V	96 HRS	77	0	
			130C, 85%R.H.,5.5V	96 HRS	77	0	
HAST	0642	DS87C520	130C, 85%R.H.,5.5V	96 HRS	117	0	
			130C, 85%R.H.,5.5V	96 HRS	117	0	
HAST	0642	DS87C520	130C, 85%R.H.,5.5V	96 HRS	117	0	
			130C, 85%R.H.,5.5V	96 HRS	117	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
AUTOCLAVE	0642	DS87C520	121C, 2 ATM STEAM, UNBIASED	168 HRS	75	0	
			121C, 2 ATM STEAM, UNBIASED	168 HRS	75	0	
				<b>Total:</b>		<b>0</b>	

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