

## Group A Electrical Tests for Class B Devices

Subgroups Sample Size / Accept # = 116/0	
<b>Subgroup 1</b> Static tests @ +25°C	<b>Subgroup 7</b> Functional tests @ +25°C
<b>Subgroup 2</b> Static tests @ Max. Rated Operating Temp.	<b>Subgroup 8A</b> Functional tests @ Max. Rated Operating Temp.
<b>Subgroup 3</b> Static tests @ Min. Rated Operating Temp.	<b>Subgroup 8B</b> Functional tests @ Min. Rated Operating Temp.
<b>Subgroup 4</b> Dynamic tests @ +25°C	<b>Subgroup 9</b> Switching tests @ +25°C
<b>Subgroup 5</b> Dynamic tests @ Max. Rated Operating Temp.	<b>Subgroup 10</b> Switching tests @ Max. Rated Operating Temp.
<b>Subgroup 6</b> Dynamic tests @ Min. Rated Operating Temp.	<b>Subgroup 11</b> Switching tests @ Min. Rated Operating Temp.

## Group B Tests for Class B

Test	MIL-STD-883C		LTPD
	Method	Condition	
<b>Subgroup 2</b> a. Resistance to Solvents	2015		4
<b>Subgroup 3</b> a. Solderability	2003	Solder Temperature 245±5°C	10
<b>Subgroup 5</b> a. Bond Strength 1) Thermocompression 2) Ultrasonic or Wedge	2011	(1) Test Condition C or D (2) Test Condition C or D	15

## Group C (Die Related) Tests for Class B

Test	MIL-STD-883C		LTPD
	Method	Condition	
<b>Subgroup 1</b> a. Steady State Life Test  B. End Point Electrical Parameters	1005	1000 hours at +125°C or Equivalent  As Specified in Applicable Device Specification	5

## Group D (Package Related) Tests for Class B

Test	MIL-STD-883C		LTPD
	Method	Condition	
<b>Subgroup 1</b> a. Physical Dimensions	2016		15
<b>Subgroup 2</b> a. Lead Integrity b. Seal (1) Fine (2) Gross	2004  1014	Test Condition B2 (lead fatigue)  As Applicable	5
<b>Subgroup 3</b> a. Thermal Shock b. Temperature Cycling c. Moisture Resistance d. Seal (1) Fine (2) Gross e. Visual Examination f. End Point Electricals	1011  1010  1004 1014	Test Condition B (15 Cycles Minimum) Test Condition C (100 Cycles Minimum)  As Applicable   As Specified in Applicable Device Specification	15
<b>Subgroup 4</b> a. Mechanical Shock b. Variable Vibration Freq c. Constant Acceleration  d. Seal (1) Fine (2) Gross e. Visual Examination f. End Point Electricals	2002 2007 2001  1014	Test Condition B Minimum Test Condition A Minimum Test Condition E Minimum Y1 Orientation Only  As Applicable  As Specified in Applicable Device Specification	15
<b>Subgroup 5</b> a. Salt Atmosphere b. Seal (1) Fine (2) Gross c. Visual Examination	1009 1014	Test Condition A Minimum As Applicable  Visual Criteria of Method 1009	15
<b>Subgroup 6</b> a. Internal Water Vapor	1018	5,000 PPM Maximum @100°C	3
<b>Subgroup 7</b> a. Lead Finish Adhesion	2025		15
<b>Subgroup 8</b> a. Lid Torque	2024		5