

Table 1 Relevant Information for 40 Pin DIP Leadframe

<i>Leadframe Attribute</i>	<i>Specification</i>
Leadframe thickness	0.25 mm
Leadframe material	Alloy 42
Leadframe manufacturing process	Stamping
Plating	None/Silver/Others
Surface treatment	To be agreed between tape user and supplier.

NOTE 2: The surface state of Alloy 42 is stable compared with Cu alloy, which is oxidized easily.

4.3 The leadframes shall be molded using molding compounds and cured with post mold curing conditions agreed on between vendor and customer. The untaped leadframe shall be prepared with the same procedure as a control.

4.4 Trim the leads according to a procedure agreed on between vendor and customer.

5 Procedure

5.1 Setup the test circuit as shown in Figure 2.

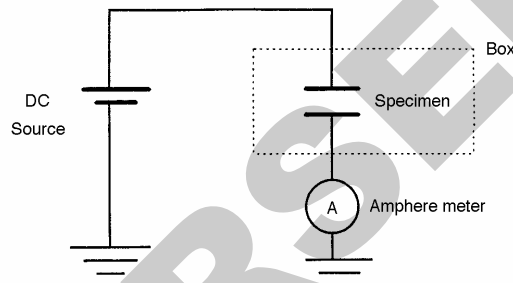


Figure 2

Test Circuit for Measurement of Leakage Current

5.2 Place the first molded sample in the shielded box and attach clips to the leads A_1 and A_2 (see Figure 1). Measure the initial leakage current at 500 volts maximum.

NOTE 3: The leakage current shall be measured after 5 minutes voltage application.

5.3 Repeat the measurement for all the lead pairs, A_2 with A_3 , B_1 with B_2 , and B_2 with B_3 .

5.4 Place the samples in the HAST chamber and run the test.

5.5 After the tester has been automatically cooled to room temperature, remove the samples.

5.6 Measure the leakage current between the same lead pairs mentioned in §§ 5.2 and 5.3.

5.7 Repeat the HAST exposure and measure the current leakage.

5.8 Calculation

5.8.1 Maximum and minimum leakage current shall represent the test results.

5.8.2 Calculate the average result for all of the test points at each test stage.

5.8.3 Obtained data should be converted to 100 volts basis or as agreed on between vendor and customer.