



## TDK MLCC Test Standards

Test reference standards for proper measuring the performance aspects listed in the TDK General Specification.

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### Abstract

*Different test methods can often lead to different test results. This Application Note clarifies the test methods TDK uses for the performance aspects listed in **Section 4.0 Performance and Test Boards** in the TDK capacitor specification.*

### TDK General Specification

No.	Performance Item	Test Method
01	External Appearance	EIA-595
02	Insulation Resistance	JIS-C-6429
03	Dielectric Withstanding Voltage	JIS-C-6429
04	Capacitance	IEC-384-9
05	Quality Factor, Q	JIS-C-6429
06	Dissipation Factor, DF	JIS-C-6429
07	Temperature Characteristic, Class I	JIS-C-6429
08	Temperature Characteristic, Class II	JIS-C-6429
09	Terminal Strength (Shear)	JIS-C-6429
10	Bending (Board Flex)	JIS-C-6429
11	Solder ability	J-STD-002
12	Resistance to Solder Heat	MIL-STD 202 Method 210
13	Vibration	MIL-STD 202 Method 204
14	Temperature Cycle	JESD 22 Method JA-104
15	Moisture Resistance	MIL-STD 202 Method 106
16	Biased Humidity	MIL-STD 202F Method 103F
17	Operating Life	MIL-STD 202F Method 108F

### Others (Common Reliability Testing, Characterization, etc)

No.	Performance Item	Test Method
18	Dimension	JESD 22 Method JA-100
19	Mechanical Shock	MIL-STD 202 Method 213
20	Thermal Shock	MIL-STD 202 Method 107
21	ESD	CDF-AEC-Q200-002
22	Beam Load (Break Strength)	CDF-AEC-Q200-003
23	High Temp Exposure	MIL-STD 202F Method 108F
24	DPA	EIA-469
25	Biased Humidity (1.3V)	MIL-STD 202F Method 103F
26	Tin Whisker	JESD22-A104



## End of Report

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