

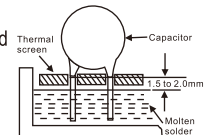
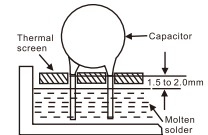
Safety recognized ceramic capacitors

Specifications test methods

Specifications Test Methods

Continued from the preceding page.

No.	Item	Specifications	Testing Method								
8	Solderability of Leads	Lead wire shall be soldered with uniformly coated on the axial direction over 3/4 of the circumferential direction.	The lead wire of a capacitor should be dipped into molten solder for 2±0.5 sec. The depth of immersion is up to about 1.5 to 2.0mm from the root of lead wires. Temp. of solder: Lead Free Solder (Sn-3Ag-0.5Cu) 245±5°C H63 Eutectic Solder 235±5°C								
9	Soldering Effect (Non-Preheat)	Appearance	No marked defect.								
		Capacitance Change	Within ±10%								
		I. R.	1000MΩ min.								
		Dielectric Strength	Per Item 6.								
10	Soldering Effect (On-Preheat)	Appearance	No marked defect.								
		Capacitance Change	Within ±10%								
		I. R.	1000MΩ min.								
		Dielectric Strength	Per Item 6.								
11	Vibration Resistance	Appearance	No marked defect.								
		Capacitance	within the specified tolerance								
		tanδ or Q	<table border="1"> <thead> <tr> <th>Char.</th> <th>Specifications</th> </tr> </thead> <tbody> <tr> <td>C, L</td> <td>Q ≥ 400+20C_R (C_R < 30pF) Q ≥ 1000 (C_R ≥ 30pF)</td> </tr> <tr> <td>X, B, E</td> <td>tanδ ≤ 0.025</td> </tr> <tr> <td>F</td> <td>tanδ ≤ 0.050</td> </tr> </tbody> </table>	Char.	Specifications	C, L	Q ≥ 400+20C _R (C _R < 30pF) Q ≥ 1000 (C _R ≥ 30pF)	X, B, E	tanδ ≤ 0.025	F	tanδ ≤ 0.050
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C, L	Q ≥ 400+20C _R (C _R < 30pF) Q ≥ 1000 (C _R ≥ 30pF)										
X, B, E	tanδ ≤ 0.025										
F	tanδ ≤ 0.050										
	The capacitor should be firmly soldered to the supporting lead wire and vibrated at a frequency range of 10 to 55Hz, 1.5mm in total amplitude, with about a 1 minute rate of vibration change from 10Hz to 55Hz and back to 10Hz. Apply for a total of 6 hrs., 2 hrs. each in 3 mutually perpendicular directions.										
12	Humidity (Under steady state)	Appearance	No marked defect.								
		Capacitance Change	C: Within ±2.5% L: Within ±5.0% X, B, E: Within ±10% F: Within ±15%								
		tanδ or Q	<table border="1"> <thead> <tr> <th>Char.</th> <th>Specifications</th> </tr> </thead> <tbody> <tr> <td>C, L</td> <td>Q ≥ 275+5/2C_R (C_R < 30pF) Q ≥ 350 (C_R ≥ 30pF)</td> </tr> <tr> <td>X, B, E</td> <td>tanδ ≤ 0.050</td> </tr> <tr> <td>F</td> <td>tanδ ≤ 0.075</td> </tr> </tbody> </table>	Char.	Specifications	C, L	Q ≥ 275+5/2C _R (C _R < 30pF) Q ≥ 350 (C _R ≥ 30pF)	X, B, E	tanδ ≤ 0.050	F	tanδ ≤ 0.075
			Char.	Specifications							
		C, L	Q ≥ 275+5/2C _R (C _R < 30pF) Q ≥ 350 (C _R ≥ 30pF)								
X, B, E	tanδ ≤ 0.050										
F	tanδ ≤ 0.075										
I. R.	3000MΩ min.										
Dielectric Strength	Per Item 6.										
		Set the capacitor for 500±12 hrs. at 40±2°C in 90 to 95% relative humidity. Post-treatment: Capacitor should be stored for 1 to 2 hrs. at room condition ^{*1} .									



*1 "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86

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