Wire-wound Ferrite Power Inductors LCXN/LCXP series

RELIABILITY DATA

Specified Value			
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	Test Methods and Remarks		

[►] This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (http://www.ty-top.com/).

10 Posistante to 0	10 P. 11		
10. Resistance to Solvents			
Test Methods and Remarks	Appearance: No significant abnormality in appearance. ①Soak a test sample in isopropyl alcohol (IPA) at 25 ±5 deg C for 3 to 3.5 minutes. ②Take the test sample out and brush 10 times using a brush soaked in IPA. ③Repeat ① and ② twice more.		
11. Mechanical Shoo	11. Mechanical Shock		
Specified Value	Appearance: No significant abnormality in appearance. Impedance change: Within ±30% of the initial value		
Test Methods and Remarks	Apply 3 shocks in each direction along 3 mutually perpendicular axes of the test specimen (18 shocks in total). Peak value: 100g Duration: 6ms Test pulse: Half-sine Velocity change: 3.7m/s.		
12. Vibration			
Specified Value	Appearance: No significant abnormality in appearance. Impedance change: Within ±30% of the initial value		
Test Methods and Remarks	5g's for 20 min., 12 cycles each of 3 orientations (36 cycles in total) Test from: 10 Hz to 2000 Hz		
13. Resistance to Soldering Heat (Reflow)			
Specified Value	Appearance: No significant abnormality in appearance. Impedance change: Within ±30% of the initial value		
Test Methods and Remarks	Reflow peak temperature: 260 ± 5 deg C Duration time: 10 ± 1 sec. Measure after inductors are kept at room temperature for 24 ± 4 hours.		
14. ESD			
Specified Value	Appearance: No significant abnormality in appearance. Impedance change: Within ±30% of the initial value		
Test Methods and Remarks	Per AEC-Q200-002		
45.0.111.			
15. Solderability Specified Value	More than 90% of terminal electrode shall be covered with fresh solder.		
Test Methods and Remarks	Per J-STD-002 a) Method B Solder at 235±5 deg C for 5 sec. c) Method D Solder at 260±5 deg C for 30 sec.		
16. Board Flex			
Specified Value	Appearance: No significant abnormality in appearance. Impedance change: Within ±30% of the initial value		
Test Methods and Remarks	Solder the test samples to the test boards by the reflow soldering. Apply a force in a downward direction until amount of deflection reaches 2mm. The 2-mm deflection shall be held for 60 sec. Test board dimensions:100mm × 40mm × 1.6mm. 20 Force Rod R340 Board Test Sample 45±2 45±2		

Fig. This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (http://www.ty-top.com/).

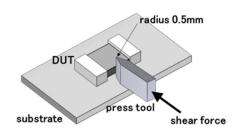
17. Terminal Strength (SMD)

Specified Value

Appearance: No significant abnormality in appearance.

Apply a force of 17.7N for 60 ± 5 sec.

Test Methods and Remarks



18. Standard condition

Note on standard condition: "standard condition" referred to herein is defined as follows:

5 to $35^{\circ}\text{C}\,$ of temperature, 45 to 85% relative humidity and 86 to 106kPa of air pressure.

Specified Value

When there are questions concerning measurement results:

In order to provide correlation data, the test shall be conducted under condition of 20±2°C of temperature, 60 to 70% relative humidity and 86 to 106kPa of air pressure. Unless otherwise specified, all the tests are conducted under the "standard condition."

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LCMC/LCMG sereise

Derating of current is necessary for LCMC/LCMG series depending on ambient temperature. Please refer to the chart shown below for appropriate derating of current.

