■ PRF18_471R Series

No.	Item	Rating Value	Metheod of Examination
1	Resistance Value at 25°C	Within the specified range	After applying maximum operating voltage for 3 mins. and leaving for 2 hours in 25°C, measured by applying voltage less than DC1.5V. (by a direct current less than 10mA)
2	Adhesive Strength	There is no sign of exfoliation on electrode.	Reference standard: IEC 60068-2-21 (2006) · Soldered PTC to PCB (**) · Force: 5.0N · Test time: 10 sec.
3	Vibration	· Appearance: No defects or abnormalities · Resistance (R25) change: Less than ±20% (*)	Reference standard: IEC 60068-2-6 (2007) · Soldered PTC to PCB (**) · Frequency range: 10 to 55Hz · Amplitude: 1.5mm · Sweep rate: 1 octave/min. · Direction: X-Y-Z (3 direction) · 24 cycles in each axis
4	Solderability	Wetting of soldering area: ≥95%	Reference standard: IEC 60068-2-58 (2004) · Solder: Sn-3.0Ag-0.5Cu · Solder temp.: 245±5°C · Immersion time: 3±0.3s
5	Resistance to Soldering Heat	· Appearance: No defects or abnormalities · Resistance (R25) change: Less than ±20% (*)	Reference standard: IEC 60068-2-58 (2004) [Solder bath method]
6	High Temperature Storage		Reference standard: IEC 60068-2-2 (2007) · Soldered PTC to PCB (**) · +150±2°C · 1000+48/-0 hrs.
7	Low Temperature Storage		Reference standard: IEC 60068-2-1 (2007) · Soldered PTC to PCB (**) · -20±3°C · 1000+48/-0 hrs
8	Damp Heat, Steady State	· Appearance: No defects or abnormalities · Resistance (R25) change: Less than ±20% (*)	Reference standard: IEC 60068-2-67 (1995) · Soldered PTC to PCB (**) · +40±2°C, 90±5%RH · 500+24/-0 hrs
9	Thermal Shock		Reference standard: IEC 60068-2-14 (2009) [Test Na]
			Step Condition Time 1 -20±3°C 30min. 2 +150±2°C 30min. · Test cycle: 5 cycles
10	High Temperature Load		Reference standard: IEC 60068-2-2 (2007) · Soldered PTC to PCB (**) · +85±2°C · Applied max. voltage · 1000+48/-0 hrs.

^{*:} The resistance value after the test. It is measured by applying voltage less than DC1.5V (by a direct current less than 10mA) after left at 25±2°C for 2hrs.

**: Above mentioned soldering is done under the following conditions at our side.

• Glass-Epoxy PC board

• Standard land dimension

• Standard solder paste

• Standard solder profile

Above conditions are mentioned in Notice

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