

■ PRF15_102 Series

No.	Item	Rating Value	Method 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 DC1.0V.								
2	Vibration	<ul style="list-style-type: none"> Appearance: No defects or abnormalities Resistance (R25) change: Less than ±20% (*) 	Reference standard: IEC 60068-2-6 (2007) <ul style="list-style-type: none"> 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 								
3	Solderability	Wetting of soldering area: ≥95%	Reference standard: IEC 60068-2-58 (2004) <ul style="list-style-type: none"> Solder: Sn-3.0Ag-0.5Cu Solder temp.: 245±5°C Immersion time: 3±0.3s 								
4	Resistance to Soldering Heat	<ul style="list-style-type: none"> Appearance: No defects or abnormalities Resistance (R25) change: Less than ±20% (*) 	Reference standard: IEC 60068-2-58 (2004) <ul style="list-style-type: none"> [Solder bath method] Solder: Sn-3.0Ag-0.5Cu Preheat: 150±5°C, 90 to 120s Solder temp.: 260±5°C Immersion time: 10±1s 								
5	High Temperature Storage		Reference standard: IEC 60068-2-2 (2007) <ul style="list-style-type: none"> Soldered PTC to PCB (**) (Max. operating temp.)±2°C 1000+48/-0 hrs. 								
6	Low Temperature Storage		Reference standard: IEC 60068-2-1 (2007) <ul style="list-style-type: none"> Soldered PTC to PCB (**) (Min. operating temp.)±3°C 1000+48/-0 hrs 								
7	Damp Heat, Steady State		Reference standard: IEC 60068-2-67 (1995) <ul style="list-style-type: none"> Soldered PTC to PCB (**) +85±2°C, 85±5%RH 1000+48/-0 hrs 								
8	Thermal Shock		Reference standard: IEC 60068-2-14 (2009) <ul style="list-style-type: none"> [Test Na] Soldered PTC to PCB (**) Transport time: <10 sec. Test condition: See below table <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Step</th> <th>Condition</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(Min. Operating temp.)±3°C</td> <td>30min.</td> </tr> <tr> <td>2</td> <td>(Max. Operating temp.)±2°C</td> <td>30min.</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Test cycle: 5 cycles 	Step	Condition	Time	1	(Min. Operating temp.)±3°C	30min.	2	(Max. Operating temp.)±2°C
Step	Condition	Time									
1	(Min. Operating temp.)±3°C	30min.									
2	(Max. Operating temp.)±2°C	30min.									
9	High Temperature Load		Reference standard: IEC 60068-2-2 (2007) <ul style="list-style-type: none"> Soldered PTC to PCB (**) (Max. operating temp.)±2°C Applied max. voltage 1000+48/-0 hrs. 								

*: The resistance value after the test. It is measured by applying voltage less than DC1.0V 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.