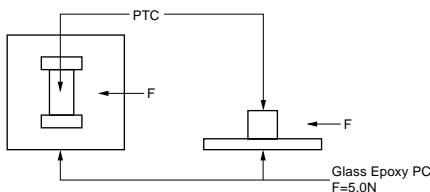


■ PRG21BC Series

No.	Item	Rating Value	Method of Examination															
1	Operating Temp.	-10 to 60°C	Temperature range with maximum voltage applied to PTC.															
2	Resistance Value (at 25°C)	The resistance value should be within the specified tolerance.	After leaving for 24 hrs. or more in 25°C, it measures by 4 wire measuring methods using the direct-current terminal current of 10mA or less (0.1 or less Vdcs).															
3	Withstanding Voltage	Without damage	We apply 120% of the maximum operating voltage to PTC by raising gradually for 180±5 secs. at 25°C. (A protective resistor is to be connected in series, and the inrush current through PTC must be limited below maximum rated value.)															
4	Adhesive Strength	There is no exfoliation sign of electrode.	EIAJ ET-7403 term 9 Soldered PTC to PCB and add the force of 5.0N in the direction as shown below. 															
5	Vibration	Normal appearance Resistance change: not to exceed ±20% (*)	JIS C 5102 term 8.2 Soldered PTC to PCB Vibration: A 10-55-10Hz (1 min.) Width: 1.5mm Vibrate for 2 hrs. in each of 3 mutually perpendicular planes for a total of 6 hrs.															
6	Solderability	Min. 75% electrode is covered with new solder. Resistance change: not to exceed ±20% (*)	JIS C 5102 term 8.4 Solder: Sn 63%/Pb 37% (or 60/40%) Solder temp: 230±5°C Soaking time: 3±0.5 secs. Soaking position: Until a whole electrode is soaked.															
7	Solder-heatability	Normal appearance Resistance change: not to exceed ±20% (*)	Solder: Sn 63%/Pb 37% (or 60/40%) Flux: Solder paste containing less than 0.2wt% of chlorine. Preheating: 150±5°C 3mins. Peak temp.: 260±5°C 10±5 secs. (reflow) PCB: Glass Epoxy PCB (JIS C 6484)															
8	High Temperature Test		60±3°C leave for 1000±10 hrs.															
9	Low Temperature Test		-10±3°C leave for 1000±10 hrs.															
10	Humidity Test		60±2°C, 90-95%RH leave for 500±4 hrs.															
11	Temperature Cycling	Normal appearance Resistance change: not to exceed ±20% (*)	JIS C 5102 term 9.3 Times: 5 cycles <table border="1" data-bbox="941 1433 1324 1556"> <thead> <tr> <th>Step</th> <th>Temp. (°C)</th> <th>Time (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-20 +0, -3</td> <td>30</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>10-15</td> </tr> <tr> <td>3</td> <td>+85 +3, -0</td> <td>30</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>10-15</td> </tr> </tbody> </table>	Step	Temp. (°C)	Time (min.)	1	-20 +0, -3	30	2	Room temp.	10-15	3	+85 +3, -0	30	4	Room temp.	10-15
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12	High Temperature Load Test		60±3°C (in air), PTC is applied maximum operating voltage for 1.5 hrs. on and 0.5 hrs. off. This cycle is repeated for 500±10 hrs.															

(\*) The resistance measurement after the test.

After leaving for 24 hours. or more in 25±2°C, it measures by 4 wire measuring methods using the direct-current terminal current of 10mA or less (0.1 or less Vdcs).

Above mentioned soldering in "4. Adhesive Strength" and "5. Vibration" is done under the following conditions at our site.

- Glass-Epoxy PC board
- Standard land dimension
- Standard solder paste
- Standard solder profile

Above conditions are mentioned in Notice.