

CHARACTERISTICS

Characteristics	Limits	Test Methods (JIS C 5201-1)															
Dielectric withstanding voltage	No evidence of flashover mechanical damage, arcing or insulation break down	4.7 Clamped in the trough of a 90°C metallic v-block and shall be tested at ac potential respectively specified in the type for 60-70 seconds															
Temperature Coefficient	1Ω~10Ω±±200PPM/°C 10.1Ω~10MΩ±±100PPM/°C	4.8 Natural resistance change per temp. degree centigrade. $\frac{R2-R1}{R1(t2-t1)} \times 10^6 \text{ (PPM/°C)}$ R1: Resistance value at room temperature (T1) R2: Resistance value at room temp. plus 100°C(T2) Test pattern: room temp. (T1), room temp. +100°C(T2)															
Short time overload	Resistance change rate is ± 5% (2.0% + 0.1Ω) Max. ± 1% (1.0% + 0.1Ω) Max.	4.13 Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 seconds															
Solderability	95% coverage Min.	Wave Solder: Test temperature of solder: 245°C±3°C dipping time in solder: 2-3 seconds. Reflow: 															
Soldering heat	Resistance change rate is + (1.0% + 0.05Ω) Max.	4.18 Dip the resistor into a solder bath having a temperature of 260°C±3°C and hold it for 10±1 seconds															
Temperature Cycling	Resistance change rate is ± 5% (2.0% + 0.05Ω) Max. ± 1% (0.5% + 0.05Ω) Max.	4.19 Resistance change after continuous 5 cycles for duty cycle specified below: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Step</th> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55°C ±3°C</td> <td>30 mins</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>10~15 mins</td> </tr> <tr> <td>3</td> <td>+155°C ±2C</td> <td>30 mins</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>10~15 mins</td> </tr> </tbody> </table>	Step	Temperature	Time	1	-55°C ±3°C	30 mins	2	Room temp.	10~15 mins	3	+155°C ±2C	30 mins	4	Room temp.	10~15 mins
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5% High Power Thick Film Resistors

(RoHS Compliant)

HP5-RC Series

■ CHARACTERISTICS (CON'T)

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Humidity	Resistance change rate is ± 5% (3.0% + 0.1Ω) Max. ± 1% (0.5% + 0.1Ω) Max.	4.24 Temporary resistance change after 240 hours exposure in a humidity test chamber controlled at 40±2°C and 90-95% humidity
Load life in humidity	Resistance change rate is ± 5% (3.0% + 0.1Ω) Max. ± 1% (0.5% + 0.1Ω) Max.	7.9 Resistance change after 1,000 hours (1.5 hours "on", 0.5 hour "off") at RCWV in a humidity chamber controlled at 40°C ± 2°C and 90 to 95% relative humidity
Load Life	Resistance change rate is ± 5% (3.0% + 0.1Ω) Max. ± 1% (0.5% + 0.1Ω) Max.	4.25.1 Permanent resistance change after 1,000 hours operating at RCWV, with duty cycle of (1.5 hours "on", 0.5 hour "off") at 70°C ± 2°C ambient
Terminal bending	Resistance change rate is ± (1.0% + 0.05Ω) Max.	4.33 Twist of Test Board: Y/X - 3/90 mm for 60 seconds



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