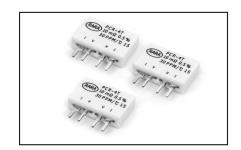
63



Precision Current Sensing Resistors

Precision cement resistors designed with four terminals, are distinguished by excellent long term stability & TCR. The Kelvin connections of this device allow high precision measurements even with low resistance values. PCR 4T has a non-inductive copper manganin element inserted into the ceramic case and finally sealed with a cement molding. This resistor has low inductance and has high pulse power. Applications include: Power modules, frequency converters, switch mode power supplies.



GENERAL SPECIFICATIONS

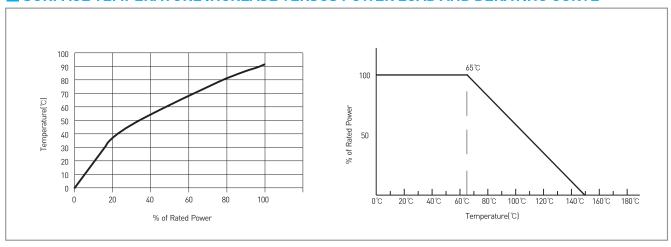
Model	Power Rating[W]	Resistance Range[Ω]	Tolerance[%]	TCR[ppm/℃]	Operating Temp. Range
PCR-4T	Max. 3	1mΩ ~ 10mΩ	$\pm 0.5, \pm 1, \pm 5$	±30 ppm/°C [20°C to 60°C]	-40°C ~ +150°C

CHARACTERISTICS

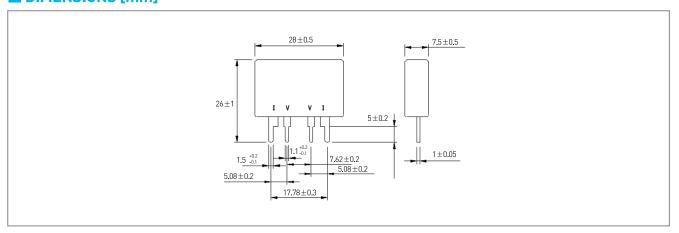
Values in [] mean change in Ω after test

Temperature Range		-40℃ ~ +150℃
Insulation Resistance		DC500V, 20M \(\Omega minimum \)
Dielectric Withstanding Voltage		AC 1500V for 1minute
Temperature Coefficient		Maximum 30ppm/℃ [20℃ to 60℃]
Short Time Overload	$[\pm 0.2\%]$	2.5 X Power rating 5seconds
Load Life	[±1 . 0%]	Power rating 1.5 hours on, 30 minutes off, 500 hours

SURFACE TEMPERATURE INCREASE VERSUS POWER LOAD AND DERATING CURVE



DIMENSIONS [mm]



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