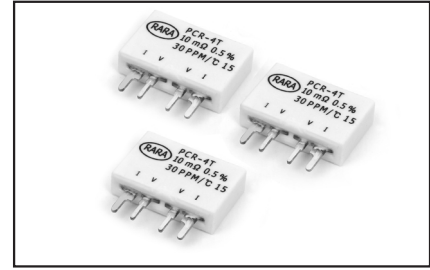


# Precision Current Sensing Resistors

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

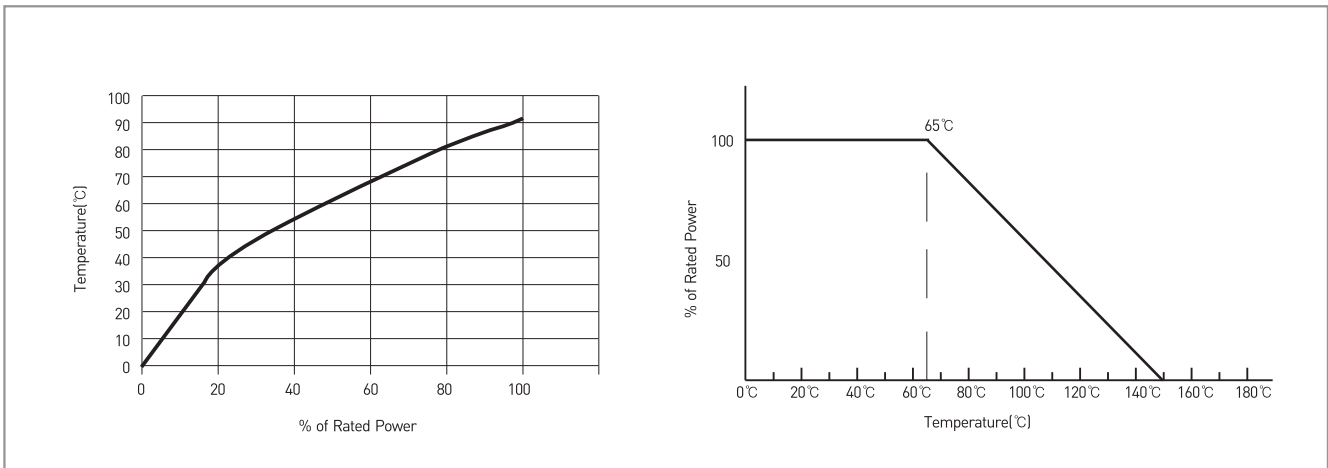
Model	Power Rating[W]	Resistance Range[Ω]	Tolerance[%]	TCR[ppm/°C]	Operating Temp. Range
PCR-4T	Max. 3	1mΩ ~ 10mΩ	±0.5, ±1, ±5	±30 ppm/°C (20°C to 60°C)	-40°C ~ +150°C

## CHARACTERISTICS

Values in [ ] mean change in Ω after test

Temperature Range	-40°C ~ +150°C				
Insulation Resistance	DC500V, 20MΩ minimum				
Dielectric Withstanding Voltage	AC 1500V for 1minute				
Temperature Coefficient	Maximum 30ppm/°C [20°C to 60°C]				
Short Time Overload	[ ±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]

