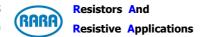
Tel: 82-32-817-4325

Fax: 82-32-817-4329



## **HPCR-4T High Power Precision Current Sensing Resistors**

High Power Precision Current Sensing Resistors (HPCR4T), designed with four terminals, are distinguished by excellent long-term stability and TCR. The Kelvin connections of this device enable high-precision measurements even with low resistance values. The HPCR4T features a non-inductive copper manganin element inserted into a ceramic case, finally sealed with cement molding. This resistor exhibits low inductance and high pulse power capabilities. Commonapplications include power modules, frequency converters, and switch mode power supplies.



## **■** GENERAL SPECIFICATION

Model	*Current Rating[A]	Resistance Range[Ω]	Resistance Tolerance[%]	TCR[ppm/℃]	Operating Temp. Range
	65	0.5m			
	60	1m			
HPCR-4T	50	2m	±0.5, ±1, ±2	±30ppm/℃	-25℃~+150℃
	40	3m			
	35	**4m			

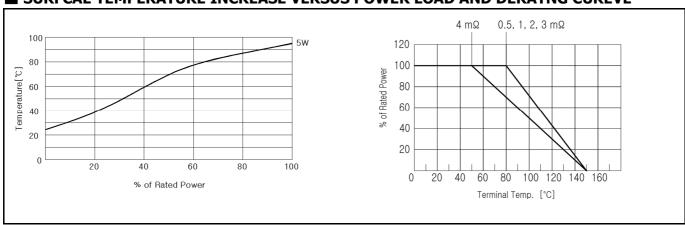
<sup>\*</sup> Max. Current 70A at 0.5m $\Omega$ 

## **■ CHARACTERISTICS**

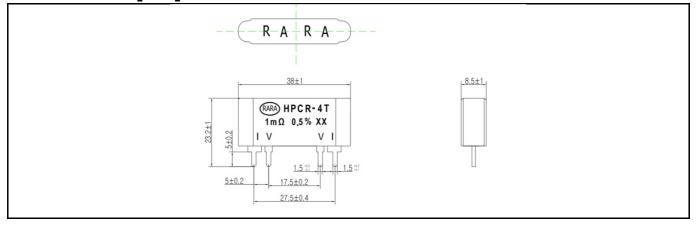
Values in [ ] mean changed in  $\boldsymbol{\Omega}$  after test

Temperature Range		-25℃~+150℃
Insulation Resistance		Min. 20MΩ at DC500V
Dielectric Withstanding Voltage		AC 1500V for 1minute
Temperature Coefficient		Maximum 30ppm/℃
Short Time Overload	± [ 0.5%± 0.05Ω]	2.5 X Power rating 5seconds
Load Life	± [ 1.0%± 0.05Ω]	Power rating 1.5 Hours on, 30 minutes off, 500 Hours
Stability	± [ 0.1%± 0.05Ω]	Testing time for 1hour Testing time for 30minutes(0.5m)

## SURFCAE TEMPERATURE INCREASE VERSUS POWER LOAD AND DERATNG CUREVE



**■ DIMENSIONS**[mm]



Website: http://www.raraohm.com

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<sup>\*\*</sup> Max. Terminal temp. 45℃