

HOW TO ORDER

RCM 100 - 102 K N B

Packaging

B = bulk

TCR (ppm/°C)

Y = ± 50 N = ± 250

Tolerance

F = $\pm 1\%$ J = $\pm 5\%$ K = $\pm 10\%$

Resistance (Ω)

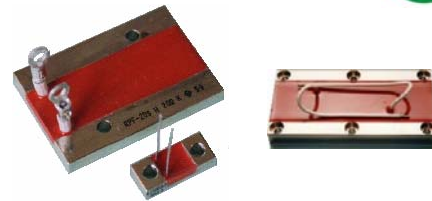
1R0 = 1.0 101 = 100
100 = 10 102 = 1.0K

Rated Power

10A = 10 W 100 = 100 W
10B = 10 W 250 = 250 W
50 = 50 W

Series

High Power Resistor, Non-Inductive, Chassis Mounting



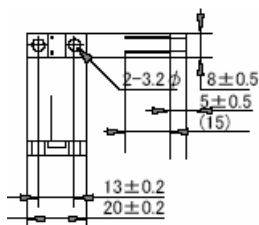
FEATURES

- Chassis mounting high power resistor 10W to 250W rated power
- Small in regard to thickness and with vertical terminal wires
- Suitable for high density electronic design.
- Decrease in the inductive effect in power electronics circuits
- Complete thermal conduction and heat dissipation design

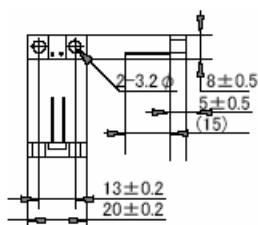
APPLICATIONS

- Gate resistors and snubber resistors in power supply
- Load resistors and dumping resistors in high end audio
- Precision terminal resistor in RF amplifiers

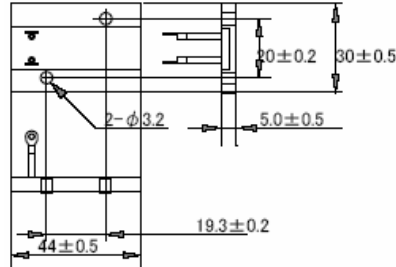
SCHEMATIC & DIMENSIONS (mm)



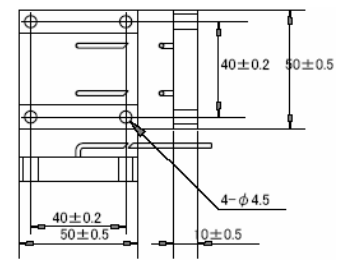
Note: Lead material is solder plated Copper
RCM10A



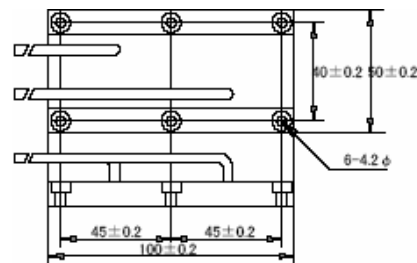
RCM10B



RCM50



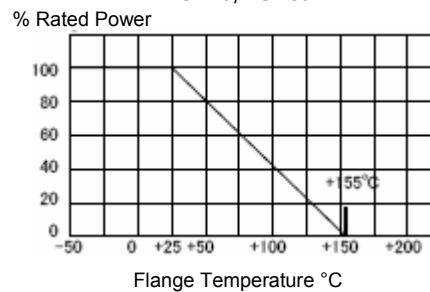
RCM100



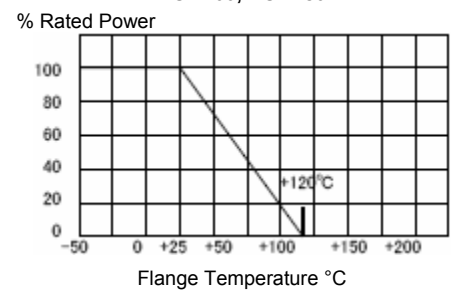
RCM250

DERATING CURVE

RCM10, RCM50



RCM100, RCM250



Custom solutions are available

For more information, send your specification to sales@aacix.com.

SPECIFICATIONS & PERFORMANCE

Model	RCM10	RCM-50	RCM100	RCM250	Test Condition
Rated Power	10 W	50 W	100 W	250 W	With heat sink , 2.8°C/W
Resistance Range (Ω) E24	10.0 ~ 20K	10.0 ~ 1.0K	10.0 ~ 1.0K	1.0 ~ 1.0K	2.0 Ω and 5.0 Ω are also available
TCR (ppm/°C)	± 50	± 50	± 250	± 250	-55°C ~ +155°C
Resistance Tolerance	$\pm 1\%$, $\pm 5\%$	$\pm 1\%$, $\pm 5\%$	$\pm 10\%$	$\pm 10\%$	
Operating Temperature Range	-55°C ~ +155°C		-55°C ~ +120°C		-55°C, 30 min., +155°C (or +120°C for RCM100 & RCM250), 30 min.; 20 cycles
Temperature Cycle	$\pm (0.25\% + 0.05 \Omega)$		$\pm (1.0\% + 0.05 \Omega)$		
Withstanding Voltage	1,000V DC	2,000V DC	5,000V DC	5,000V DC	60 seconds
Maximum Applied Voltage	$E = \sqrt{P \cdot R}$				
Load Life	$\pm (1.0\% + 0.05 \Omega)$				25°C, 90 min. on, 30 min. off, 1000 hrs
Humidity	$\pm (1.0\% + 0.05 \Omega)$				70°C, 90 ~ 95% RH, DC 0.1W, 1000 hrs
Short Time Overload	$\pm (0.25\% + 0.05 \Omega)$				Rated power x 2.5, 2.5 sec. with heat sink
Soldering Heat	$\pm (0.25\% + 0.05 \Omega)$				350°C $\pm 5^\circ\text{C}$, 3 sec.
Solderability	> 75% of round				230°C $\pm 5^\circ\text{C}$, 3 sec.
Insulation Resistance	> 1000 Meg ohm				Between terminals and tab
Vibration	$\pm (0.25\% + 0.05 \Omega)$				