HIGH POWER RESISTOR – Non Inductive Chassis Mounting

The content of this specification may change without notification 12/12/07
Custom solutions are available.

HOW TO ORDER

RCM 100 - 102 K N B

Packaging
B = bulk

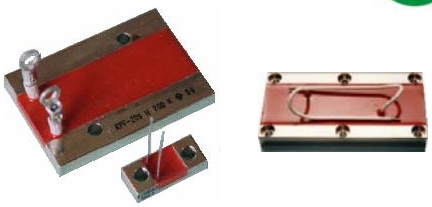
TCR (ppm/°C)
Y = ±50 N= ±250

Tolerance
F = ±1% J = ±5% K= ±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



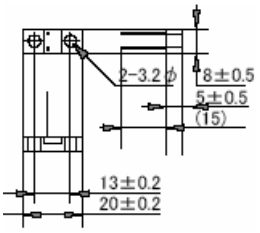
FEATURES

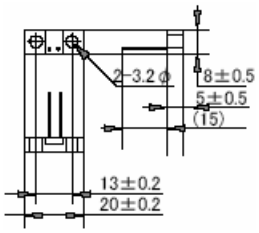
- Chassis mounting high power resistor 10W to 250W rated power
- Small in regard to thickness and with vertical terminal wires
- Suitable for high density electronic design.
- Decrease in the inductive effect in power electronics circuits
- Complete thermal conduction and heat dissipation design

APPLICATIONS

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

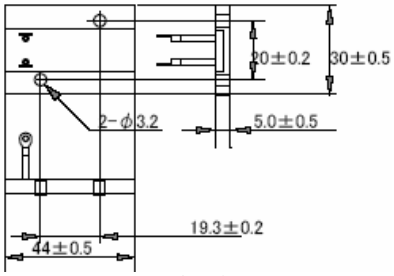
SCHEMATIC & DIMENSIONS (mm)



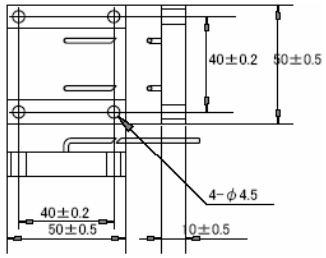


Note: Lead material is solder plated Copper

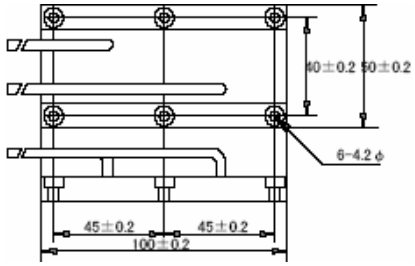
RCM10A **RCM10B**



RCM50



RCM100

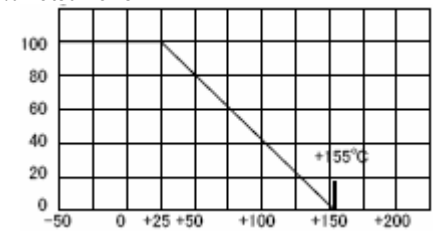


RCM250

Custom solutions are available
For more information; send your specification to sales@aacix.com.

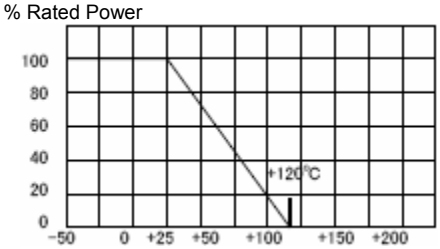
DERATING CURVE

RCM10, RCM50



Flange Temperature °C

RCM100, RCM250



Flange Temperature °C

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	±1%, ±5%	±1%, ±5%	±10%	±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	± (0.25% + 0.05 Ω)		± (1.0% + 0.05 Ω)		
Withstanding Voltage	1,000V DC	2,000V DC	5,000V DC	5,000V DC	60 seconds
Maximum Applied Voltage	E = √P*R				
Load Life	± (1.0% + 0.05 Ω)				25°C, 90 min. on, 30 min. off, 1000 hrs
Humidity	± (1.0% + 0.05 Ω)				70°C, 90 ~ 95% RH, DC 0.1W, 1000 hrs
Short Time Overload	± (0.25% + 0.05 Ω)				Rated power x 2.5, 2.5 sec. with heat sink
Soldering Heat	± (0.25% + 0.05 Ω)				350°C ± 5°C, 3 sec.
Solderability	> 75% of round				230°C ± 5°C, 3 sec.
Insulation Resistance	> 1000 Meg ohm				Between terminals and tab
Vibration	± (0.25% + 0.05 Ω)				

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