

200W

CHASSIS MOUNTING NON-INDUCTIVE  
HIGH POWER RESISTORS  
RPM150, RPM200



Features and Applications

Small size SOT227, light weight, 200W high power resistor install on air-cooled heat sink or water-cooling is necessary.

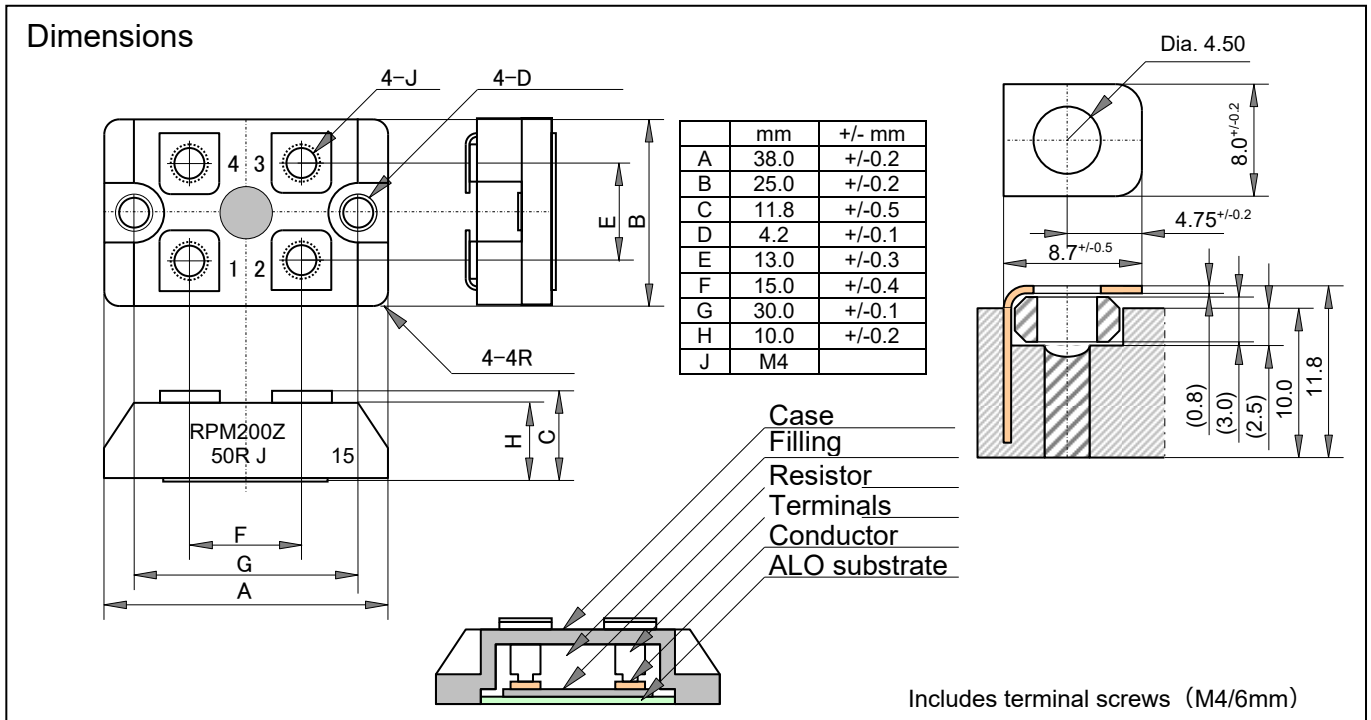
Completely resin filled structure provides high insulation voltage between heat-sink / resistor and partial discharge performance, long-life stable operation.

2.5 kV insulation voltage is standard and 4.0 kV insulation is available in option.

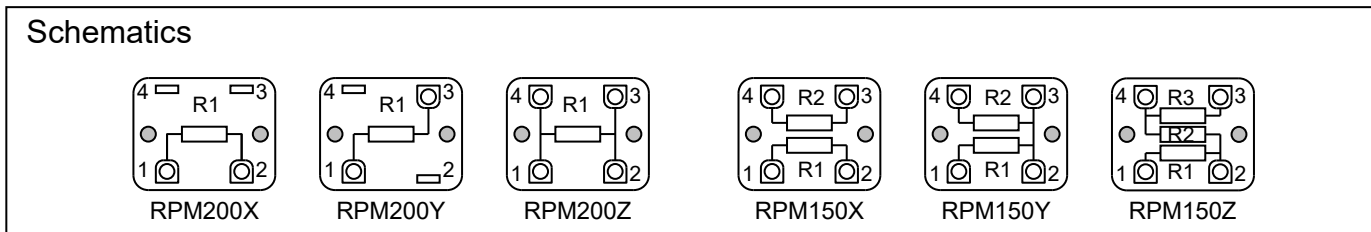
Various 6 types of circuit configuration gives ease customer's applications.

Very low series inductance and parallel capacitance make wide frequency range operation.

Applications include snubber resistors, filter resistors, bleeder resistor, current detect for automotive electronics and many types of power electronics as UPS, power supply, professional audio.



Note: The depth of the screw hole is about 4.3mm from the surface of the terminal plate.



RPM150, RPM200

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Ordering Information

Type	Terminal Connection (**)	Resistance	Tolerance	RoHS	Package
RPM200	Z	101 (*)	J	Z03	(20pcs/tube)
RPM150	X	+E12	J (5%)	Z	
RPM200	Y	R1=R2=R3		(RoHS2)	
	Z				

(\*) When a network circuit configuration contains two resistors, ordering is RPM150X101JZ00.

(\*\*) Terminal screws provide in standard, M4-5mmL only. If the screws are not necessary, please mention about it on the order sheet.

(\*\*\*) When ordering of the optional 4KV insulation, please specify P/N as RPM200X4KV 101JZ00.

Specifications and Performances

	RPM150	RPM200	Conditions
Rating Power	150 W	200W	At flange temp. -55°C to +85°C
Configuration	XYZ	XYZ	
Weight	20.0gr	20.0gr	
Thermal Resistance.	0.35 °C /W	0.35 °C /W	
Single or Dual Configuration	More than one		Same resistance, R1= R2= R3
Resistance Range	0.1 ohm to 1Mohm		RPM200Z 0.1 Ω -1.0Ω, 1% option, please see Note 5
Resistance	E12+		Additionally, 2.5 and 5.0.
TCR	+/-100 ppm/°C		For -55°C to +125°C, typical, over10 ohm
Tolerance	+/-5%(J)		1% option
Operation Temp.	-55 - +155 °C		At resistor element surface
Max. Voltage	Less than $E = \sqrt{P \cdot R}$ or 1000V		
Max. Current	100A		
Insulation Voltage	2500 VAC / 4000VAC		60 seconds. 4KVAC optionally available
Capacitance between terminals	13.1pF		typical
Inductance	13.7nH		typical
Load Life	+/-1.0 %		25C, 90 min. ON, 30min. OFF, 1000h.
Humidity	+/-1.0 %		40C, 90 to 95%RH, DC0.1W, 1000h.
Tem. Cycle	+/-1.0 %		Note 1
Short Time Over Load	Rated Power		Note 2
Insulation	Over 1000 Meg Ω		Between terminals and heat-sink.
Vibration	+/-0.25 %		Note 4
Weight	20.0 grams		

Note1: -55°C, 30 min., +120 °C 30min., 20 cycles.

Note2: Several seconds overload can not be applied.

Note3: Torque: Terminal 1.0Nm max, 0.6Nm recommend. Mounting 1.6Nm max, 1.0Nm recommend.

Note 4: IEC60068-2-6, displacement 0.75mm or acceleration 100m/sec<sup>2</sup>, 10Hz-54Hz sweep, 10 cycles X-Y-Z direction.

Note 5. When option 1% tolerance at range 0.1Ohm to 1 Ohm is necessary, Kelvin style connection of RPM200Z would be recommended

