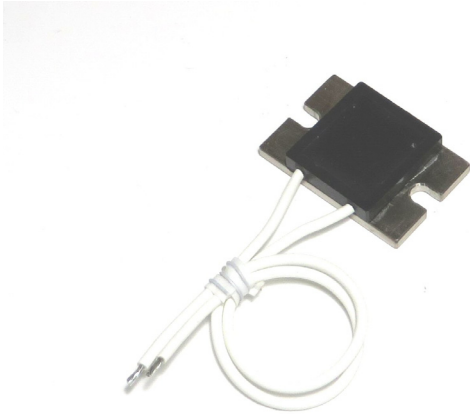


500W, 2kV

CHASSIS MOUNTING NON-INDUCTIVE  
FLAT TYPE HIGH POWER RESISTORS

RPL500



Features and Applications

Flat type, 500W high power resistor. Attaching an air-cooled heat sink or water-cooling necessary.

Rated power is 500W (one element).

Custom resistance and power resistor network available.

Higher density packing, vibration-proof, insulation withstand voltage and perfect heat dissipation possible.

Applications include snubber resistors, surge protection, breeder resistor, dummy load, gate resistor, dumping resistor for power supplies, pulse generators, high frequency amplifiers, theater audio equipment, etc.

Dimensions (mm)

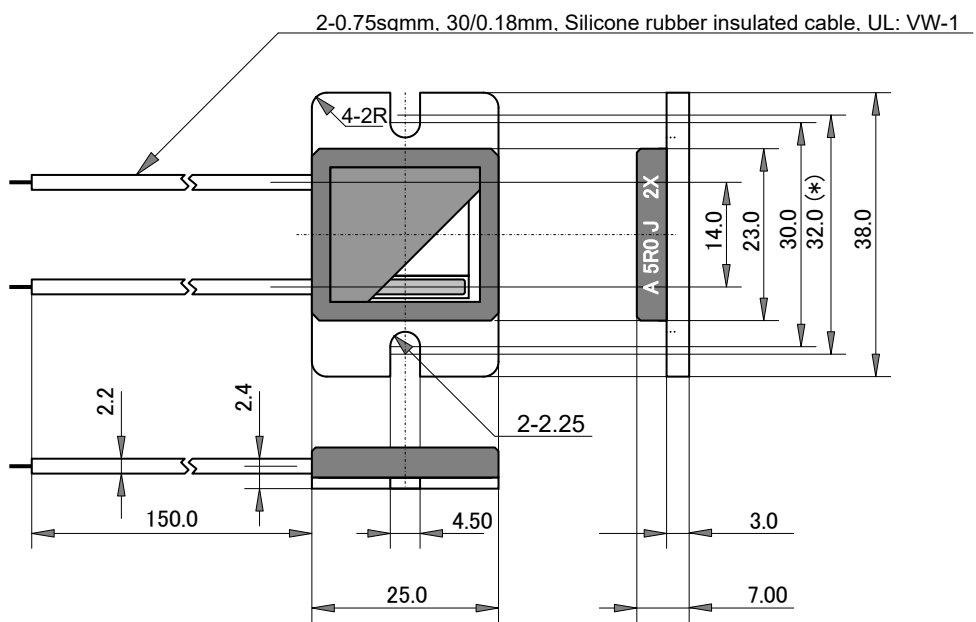


Figure 1. Dimension and Marking (mm)

\* : center of mounting screws.

500W

RPL500

CHASSIS MOUNTING NON-INDUCTIVE FLAT TYPE HIGH POWER RESISTORS

品目番号 Ordering Information

Type RPL500	TCR A	Resistance 10R	Tolerance J	Code Z05	Note
RPL500 RPL500-5KV	A (100ppm)	10R E24+ (*)	J (5%)	Z05	RoHS & Tray package

(\*) Recommend resistance value, when request for optional resistance please call factory.

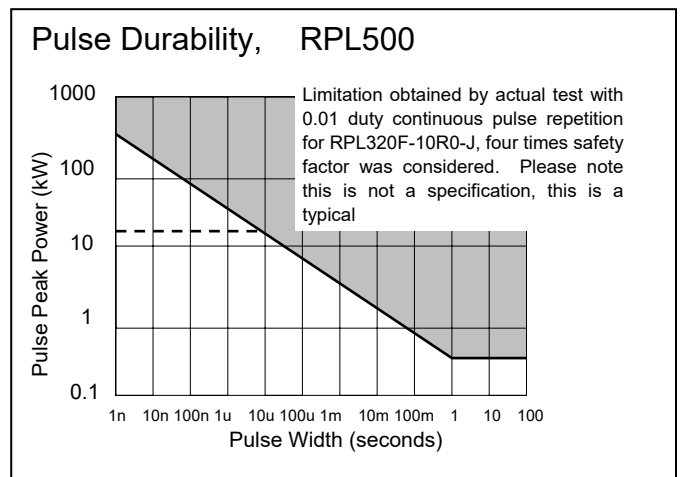
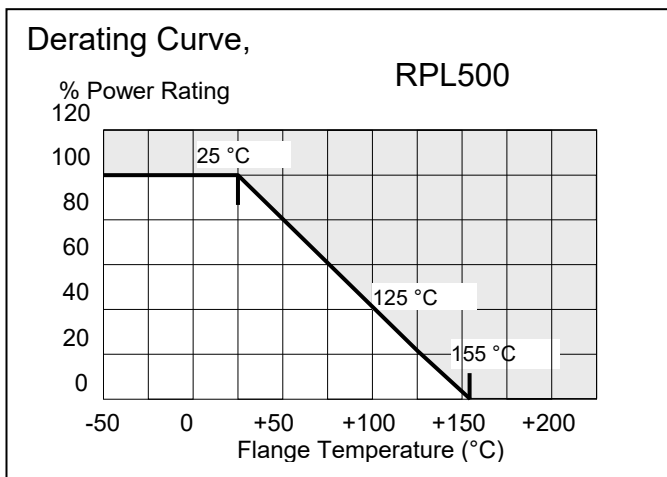
1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.5	2.7	3.0	3.3
3.6	3.9	4.0	4.3	4.7	5.0	5.1	5.6	6.2	6.8	7.5	8.0	8.2	9.1

Specifications and Performances

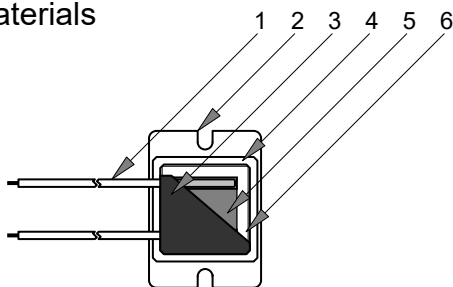
Items	Specifications	Conditions
Rating Power	500 W	At flange temperature -55°C to +25 °C
Heat Resistance	0.26 °C/W	From resistor to flange
Resistance Range	0.1 Ω to 51KΩ	Lowest 0.1 ohm is available, 0.1ohm – 1Mohm
Nominal Resistance	E12+	Modified E24, additionally, 2.0 and 5.0.
TCR	+/-100 ppm/°C (A)	For -55 to +175 °C
Tolerance	+/-5% (J)	
Operation Temp.	-55°C to +155 °C	At flange element surface
Max. Applied Voltage	$E = \sqrt{P \cdot R}$ or 1kV	
Withstanding Voltage	2kVAC	60 seconds between terminals and flange. Leak current below 0.5mA
Load Life	ΔR +/-1.0 %	Continuous power 1000hours.
Humidity	ΔR +/-1.0 %	60 °C, 90 to 95%RH, DC0.1W, 1000hours.
Temperature Cycle	ΔR +/-1.0 %	-55 °C, 30 min., +155 °C 30min., 5 cycles.
Insulation Resistance	Over 1000 MΩ	Between terminals and flange.
Vibration	ΔR +/-0.5 %	Note 2
Flammability	UL94V-0	For resistor body
Weight	20 grams	With standard lead wire length
Storage Temp. Range	-55°C - +70°C	

Note 1: Torque: Mounting 1.6Nm max, 1.0Nm recommend.

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



Materials



1	Terminal wire	2-0.75sqmm, 30/0.18mm, Silicone rubber insulated cable, UL: VW-1
2	Flange	Ni plated copper
3	Molding	Epoxy resin
4	Case	Glass fiber filled Epoxy resin
5	Resistor	Thick film
6	Substrate	Alumina ceramics