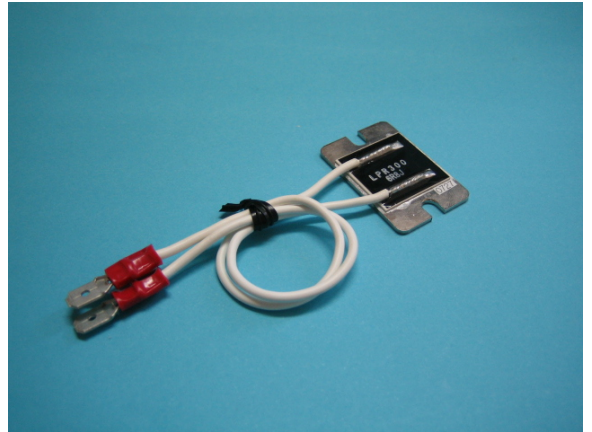


CHASSIS MOUNTING NON-INDUCTIVE
HIGH POWER RESISTORS

RPL300



Features and Applications

Small size, low profile , 300W high power resistor. Attaching a large air-cooled heat sink or water-cooling will be necessary.

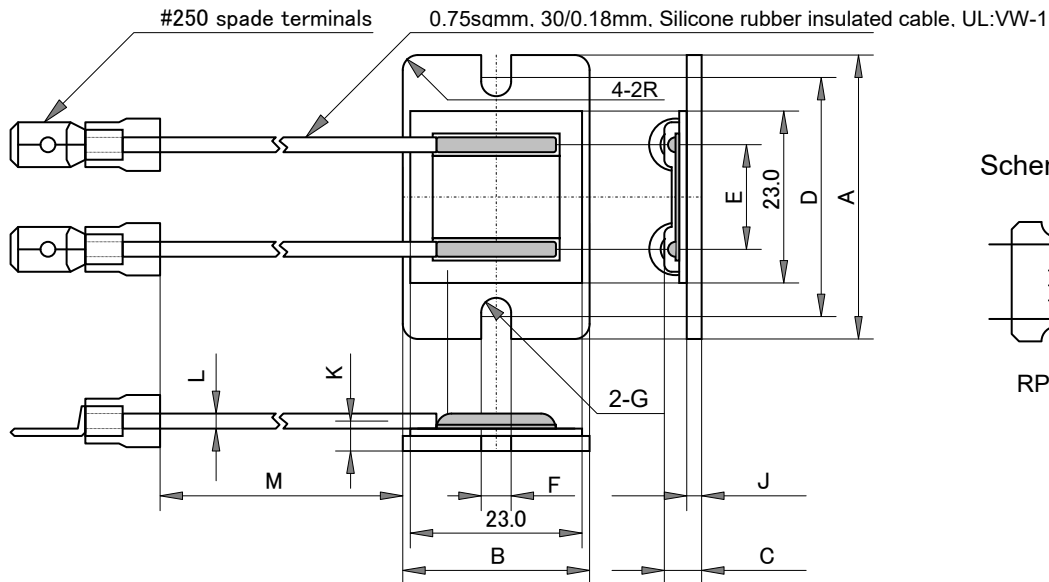
Rated power is 300W (single resistor).

M4 screw mount, wire leads, very low series inductance.

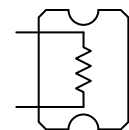
Higher density packing, vibration-proof and perfect heat dissipation possible.

Applications include snubber resistors for power supplies, gate resistors, pulse generators, high frequency amplifiers, dumping resistance of theater audio equipment of dividing network of loud speaker systems, etc.

Dimensions



Schematics



RPL300

	A	B	C	D	E	F	G	J	K	L	M
(mm)	38	25	4.0	32	14	4.2	2-2.1R.	1.5	2.5	2.1 dia.	150.0
	+/-0.5	+/-0.5	+/-0.5	+/-0.2	+/-0.5	+/-0.2		+/-0.2	+/-0.5		+/-10

CHASSIS MOUNTING NON-INDUCTIVE HIGH POWER RESISTORS

RPL300

Ordering Information

Type RPL300	Resistance 10R	Tolerance J	Code Z00	Note
RPL300	10R E12+ (*)	J (5%)	Z00	RoHS, bulk package

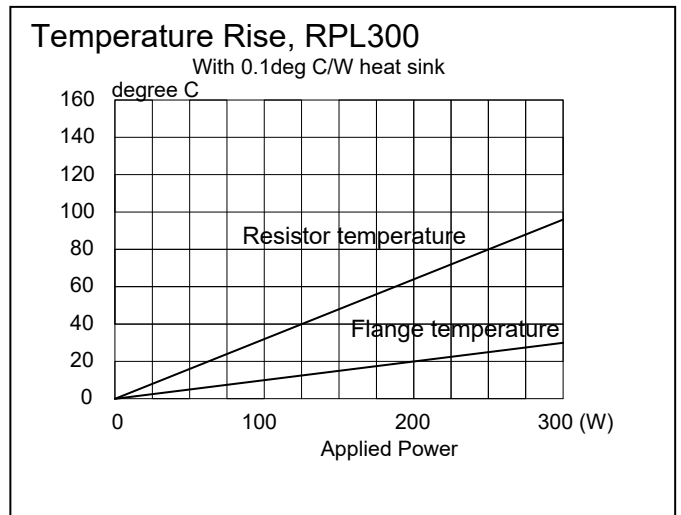
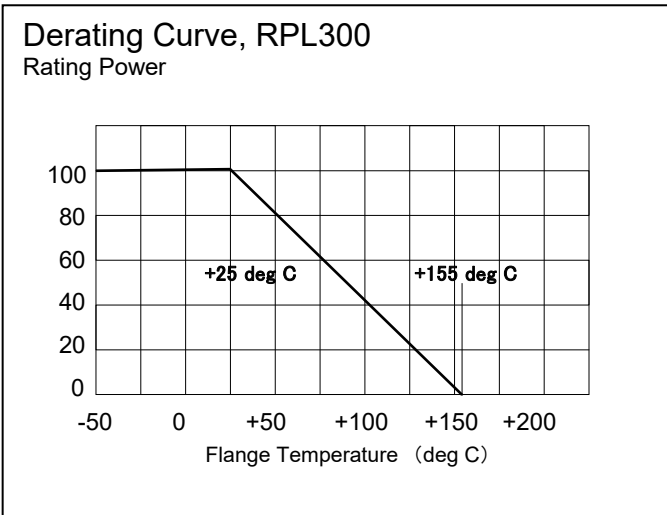
(*) Recommend resistance value, when request for optional resistance please call factory.

1.0	1.2	1.5	1.8	2.2	2.5	2.7	3.3	3.9	4.7	5.0	5.6	6.8	8.2
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Specifications and Performances

Items	RPL300	Test Conditions
Rating Power	300 Watts	At flange temperature -55 to +25 deg C
Resistance Range	0.1ohm to 51Kohm Single	
Nominal Resistance	Any value	
TCR	+/-100 ppm/C(A)	For -55 to +155 deg C, typical, over 1.0 ohm
Tolerance	+/-5.0%(J)	+/- 1%(F) is available optionally
Operation Temp. Range	-55 - +155 deg C	
Max. Applied Voltage	$E = \sqrt{P \cdot R}$	
Withstanding Voltage	2000 V AC	60 seconds. Between terminals and flange.
Load Life	+/-1.0 %	25 deg C, 90 min. ON, 30min.OFF, 1000hours.
Humidity	+/-1.0 %	40 deg C, 90 to 95%RH, DC0.1W, 1000hours.
Temperature Cycle	+/-1.0 %	-55C, 30 min.,+155C30min., 20cycles. (-55 deg C, 30 min.,+120C, 30min., 20cycles.)
Short Time Overload	+/-0.25 %	Rating watt×1.5, 2.5 seconds, with heat sink.
Insulation Resistance	Over 1000 Meg ohm	Between terminals and flange.
Vibration	+/-0.25 %	IEC60068-2-6, and specification is sin-wave sweep wave form, 10Hz-55Hz, 10 cycles, amplitude 0.75mm, 45minutes. direction x-y z.
Weight	20 grams	

Thermal resistance of RPL300 is 0.22 degC/W.



Materials:
 Flange: Ni plated copper plate.
 Substrate: AlO ceramics substrate.
 Resistor: Metal film resistor.
 Terminals: Silicone insulated wire and #250 .
 Surface electrical insulation: Silicone resin (hard) over Epoxy resin.

Note:
 When water cool heat sink is used, actually keeping flange at less than 25 deg C is difficult. When flange temperature is over 25 deg C, rating will be decreased as shown as derating curve.
 In short pulse application, peak power will be restricted under 300W.