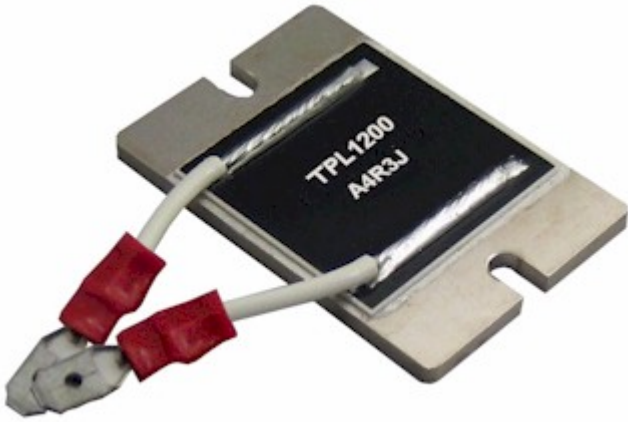
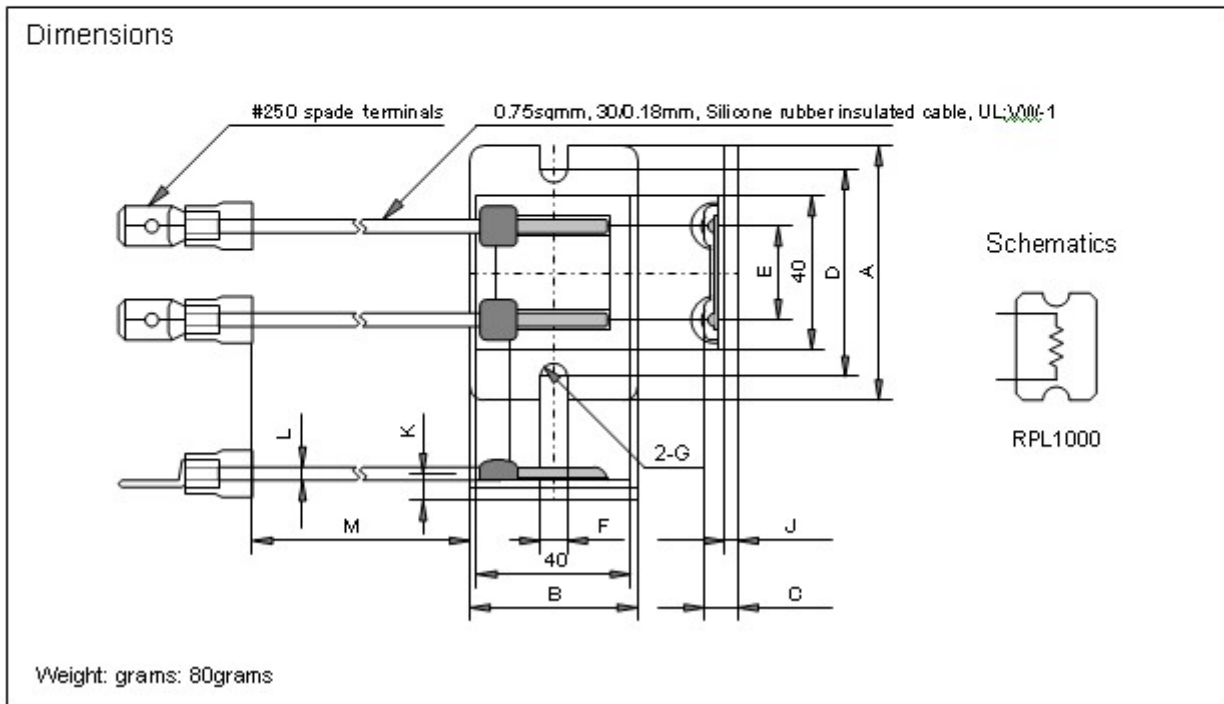


TPL1200 CHASSIS MOUNTING NON-INDUCTIVE HIGH POWER RESISTORS



Features and Applications

These are compact, low profile, 1000W high power resistors. An air-cooled heat sink or water-cooling is necessary. The rated power is 1000W. Units have M4 screw mounts, wire leads and very low series inductance. Resistors are also vibration-proof and exhibit perfect heat dissipation. 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.





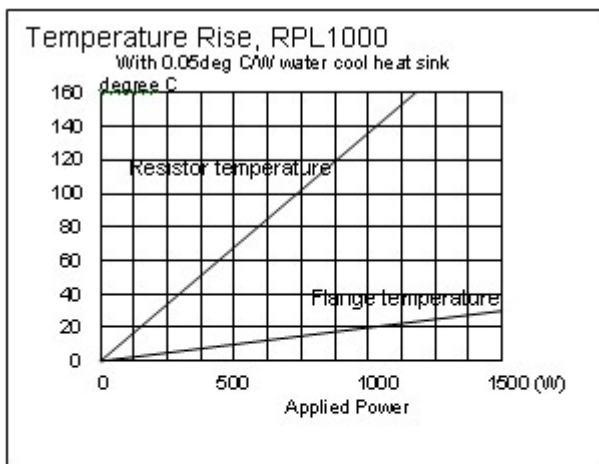
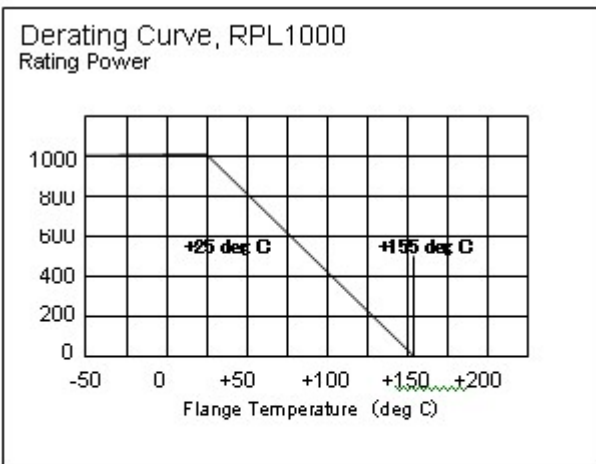
	A	B	C	D	E	F	G	J	K	L	M
(mm)	60	40	8.0	50		4.8	2-2.4R.	3.0	4.5	2.1 dia.	150.0
	+/-0.5	+/-0.5	+/-0.5	+/-0.2		+/-0.2		+/-0.2	+/-0.5		+/-10

Ordering Information

P/N	Type	TCR	Resistance	Tolerance	Note
RPL1000A20ohmJ	RPL1000	A(100ppm/K)	20ohm	J(5%)	
RPL1000A100ohmJ	RPL1000	A(100ppm/K)	100ohm	J(5%)	
RPL1000A50ohmJ	RPL1000	A(100ppm/K)	50ohm	J(5%)	
RPL1000A51KohmJ	RPL1000	A(100ppm/K)	51Kohm	J(5%)	

Specifications and Performances

Items	RPL1000	Test Conditions
Rating Power	1000 Watts	At flange temperature -55 to +25 degree C
Resistance Range	1ohm to 51Kohm	
Nominal Resistance	Any value	
TCR	+/-100 ppm/C(A)	For -55 to +155 C
Tolerance	+/-5.0%(J)	
Heat resistance	0.10deg C/W	From resistor to flange.
Operation Temp. Range	-55 - +155 C	
Max. Applied Voltage	$E = \sqrt{P \cdot R}$	
Withstanding Voltage	2000 V AC	60 seconds. Between terminals and flange.
Load Life	+/- (1.0 % + 0.05 ohm)	25 degC, 90 min. ON, 30min.OFF, 1000hours.
Humidity	+/- (1.0 % + 0.05 ohm)	40 degC, 90 to 95%RH, DC0.1W, 1000hours.
Temperature Cycle	+/- (1.0 % + 0.05 ohm)	-55C, 30 min., +155C30min., 20cycles. (-55C, 30 min., +120C, 30min., 20cycles.)
Short Time Overload	+/- (0.25 % + 0.05 ohm)	Rating wattx1.5, 2.5 seconds, with heat sink.
Soldering Heat	+/- (0.25 % + 0.05 ohm)	350 degC +/- 5 degC, 3seconds,
Insulation Resistance	Over 1000 Meg ohm	Between terminals and flange.
Vibration	+/- (0.25 % + 0.05 ohm)	



Materials:
 Flange: Ni plated copper plate.
 Substrate: AlN ceramics substrate.
 Resistor: Metal film resistor.
 Terminals: Silicone insulated wire and #250...
 Wire fixture, mechanical: Epoxy resin.
 Cover, electrical insulation: Silicone resin (hard).

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 1000W.