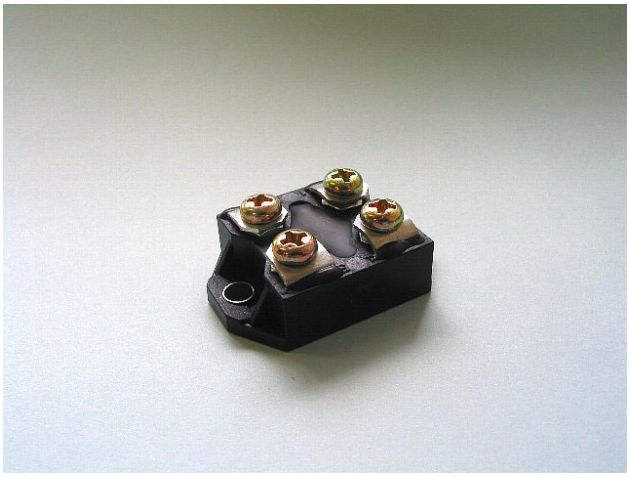
Lead Free

CHASSIS MOUNTING NON-INDUCTIVE HIGH POWER RESISTORS

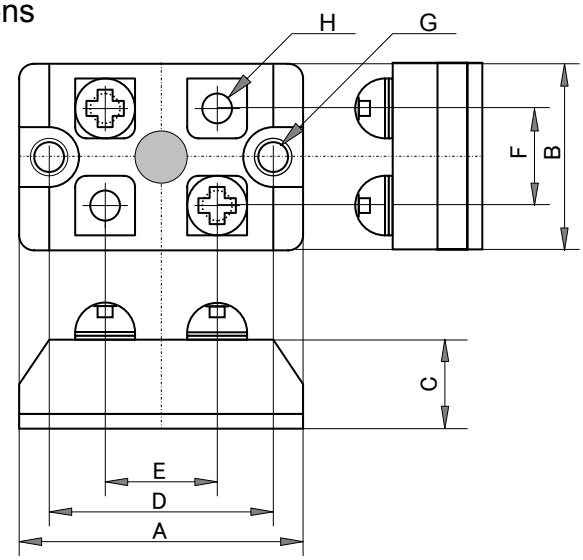
RPG250, RPG300



Features and Applications

Small size TO227, 200W high power resistor. Attaching an air-cooled heat sink or water-cooling is necessary.
Rated power is 300W (one element) or 250W (two elements).
M4 screw terminals, 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.

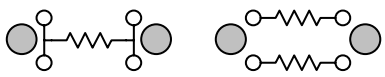
Dimensions



Dimensions

Symbols	(mm)	Note
A	38+/-0.5	
B	25+/-0.5	
C	15+/-0.5	
D	30+/-0.2	
E	15+/-0.5	
F	13+/-0.5	
G	2-3.2dia.	
H	4-M4.0	

Schematics



RPG300 RPG250

Ordering Information

P/N	Type	TCR	Resistance	Tolerance	Note
RPG250A10+10ohmJ	RPG250	A(100ppm/K)	10+10ohm	J(5%)	Two resistors
RPG250A50+50ohmJ	RPG250	A(100ppm/K)	50+50ohm	J(5%)	Two resistors
RPG300A50ohmJ	RPG300	A(100ppm/K)	50ohm	J(5%)	One resistor
RPG300A100ohmJ	RPG300	A(100ppm/K)	100ohm	J(5%)	One resistor

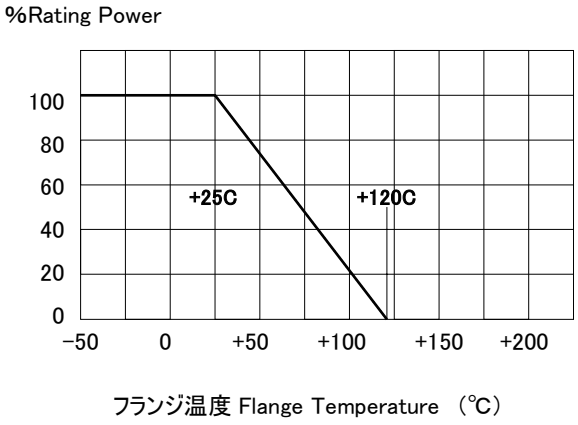
Willow Technologies Ltd. Shawlands Court Newchapel Road Lingfield Surrey RH7 6BL ENGLAND
Tel. +44 (0) 1342 835234 Fax. +44 (0) 1342 834306 Web. www.willow.co.uk E-mail. sales@willow.co.uk

CHASSIS MOUNTING NON-INDUCTIVE HIGH POWER RESISTORS
RPG-250, RPG-300

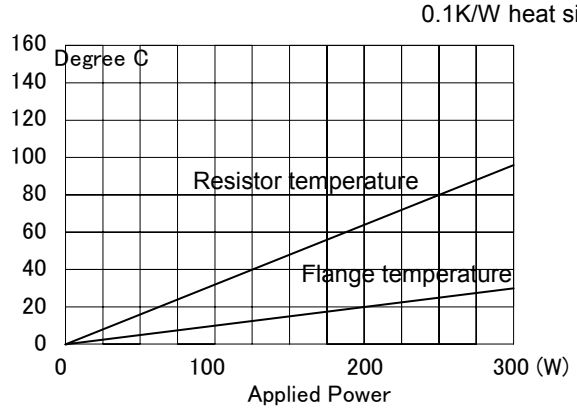
Specifications and Performances

Specification Items	RPG250	RPG300	Test Conditions
Rating Power	250 Watts	300 Watts	At flange temperature -55 to +25 degree C
Resistance Range	1ohm to 1Kohm Dual	1ohm to 1Kohm Single	
Nominal Resistance	E24+	E24+	Additionally, 2.0 and 5.0.
TCR	+/-100 ppm/K(A)	+/-100 ppm/K(A)	For -55 to +120 C
Tolerance	+/-5%(J)	+/-5%(J)	
Operation Temp. Range	-55 - +120 C	-55 - +120 C	
Max. Applied Voltage	$E=\sqrt{P\cdot R}$		
Withstanding Voltage	2500 VAC		60 seconds.
Load Life	+/-(1.0 %+0.05 ohm)		25C, 90 min.ON, 30min.OFF, 1000hours.
Humidity	+/-(1.0 %+0.05 ohm)		70C, 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. at RPG300)
Short Time Overload	+/-(0.25 %+0.05 ohm)		Rating watt×2.5, 2.5seconds, with heat sink.
Soldering Heat	+/-(0.25 %+0.05 ohm)		350 C +/-5 C, 3seconds,
Solderability	Soldering is not available		-
Insulation Resistance	Over 1000 Mohm		Between terminals and flange.
Vibration	+/-(0.25 %+0.05 ohm)		

Derating Curve, RPG250, RPG300



Temperature Rise, RPG300



Materials

Flange: Ni plated copper plate.
Substrate: Al2O3 alumina substrate.
Resistor: Metal film resistor.
Case: Polycarbonate plastics.
Terminals: Ni plated copper alloy
Screw: 4-M4/10mm.

20050212

Willow Technologies Ltd. Shawlands Court Newchapel Road Lingfield Surrey RH7 6BL ENGLAND
Tel. +44 (0) 1342 835234 Fax. +44 (0) 1342 834306 Web. www.willow.co.uk E-mail. sales@willow.co.uk