

TPK600/TPK900

Chassis Mounting Non-Inductive High Power Resistors

Features and Applications

Small size TO227, 600W high power resistor. Attaching a large air-cooled heat sink or water-cooling is necessary. Rated power is 600W (single element and two element). M4 screw terminals, very low series inductance. Higher density packing, vibration-proof and 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.



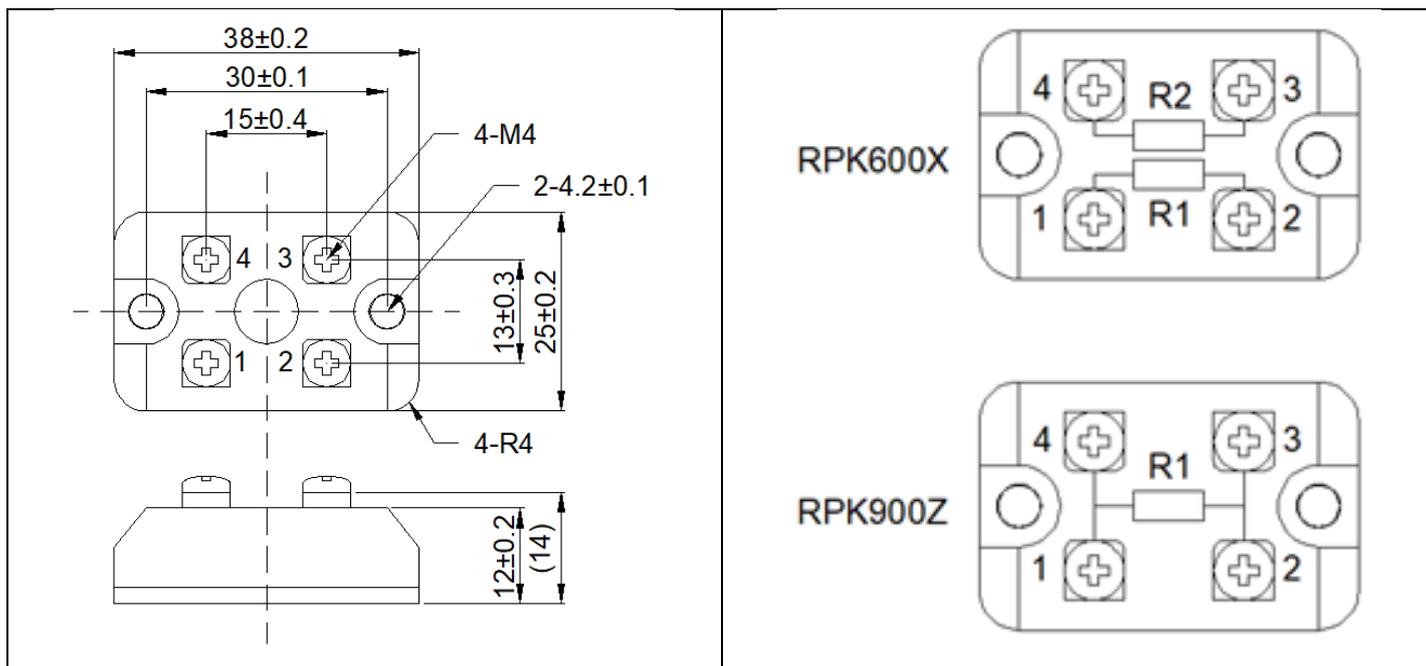
■ GENERAL SPECIFICATIONS

Model	TPK600	TPK900
Power Rating	600 [W] (at flange temperature -55°C to +25°C)	900 [W] (at flange temperature -55°C to +25°C)
Resistance Range	50 [Ω] - 1 [KΩ] (Dual)	50 [Ω] - 1 [KΩ] (Single)
Nominal Resistance	E24+	E24+
Tolerance	±5 [%]	±5 [%]
T.C.R	±50 [ppm/°C]	±50 [ppm/°C]

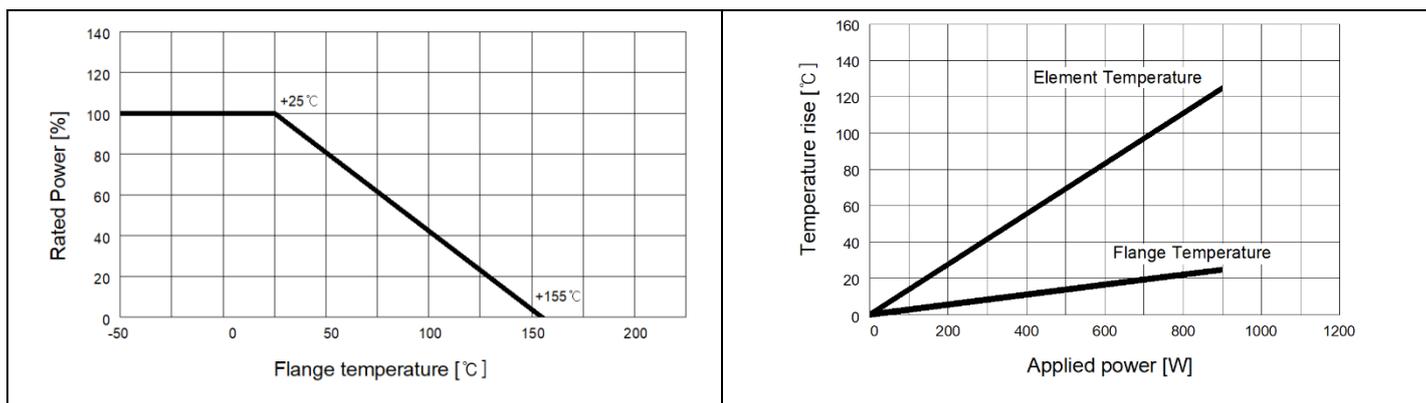
■ CHARACTERISTICS

Model	TPK600	TPK900
Operation Temp. Range	-55 ~ +155 [°C] (at flange temperature)	
Max. Applied voltage	1000 [Vac] or $E=\sqrt{P \cdot R}$	
Short time overload	600W (5sec. with heat-sink)	900W (5sec. with heat-sink)
	±(0.25 [%]+0.05Ω) (Rating watt*1.5, 2.5sec. with cooler.)	
Withstanding voltage	2500 [Vac] (60 sec. 1mA)	
Load life	±(1.0 [%]+0.05Ω) (25°C, 90min. On, 30min. Off, 1000hr.)	
Humidity	±(1.0 [%]+0.05Ω) (40°C, 90-95%RH, DC0.1W, 1000hr.)	
Temperature cycle	±(1.0 [%]+0.05Ω) (-55°C 30min., +155°C 30min., 20cycles)	
Insulation resistance	Over 1000 [MΩ] (Between terminals and tab)	
Vibration	±0.25 [%]	
Weight	36.1 [g]	

DIMENSIONS



DERATING CURVE AND TEMPERATURE RISE



ORDERING PROCEDURE EXAMPLE

Model	Z	T.C.R	Resistance	Tolerance	Note
TPK900	Z	C	100ohm	J	Z03
TPK600	X	C (50ppm/°C)	+E24 (50R-1K0) (R1=R2)	J (±0.5%)	Z03 (Tube) (RoHS)
TPK900	Z				

* Resistance value (*) is available following modified E24, +E24.

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