

# Chassis Mounting Non-Inductive High Power Resistor(SOT227)

These are small sized, TO227, 150W & 200W high power resistors. Mounting on an air-cooled heat sink or water-cooling is recommended. Rated power is 200W(one element) or 150W (two elements). These units have M4 screw terminals and exhibit very low series inductance. Other features are low vibration, superior heat dissipation and 0.5 °C/W thermal resistance. Applications include: Snubber resistors for power supplies, gate resistors, pulse generators, high frequency amplifiers, dumping resistors for theatre audio equipment and dividing networks for loud speaker systems.



## GENERAL SPECIFICATIONS

Model	Power Rating[W] (see note 1)	Resistance Range [Ω]	TCR [ppm/°C]	Tolerance(%)	Maximum Working Voltage[V]
TPJ150	Two elements 75+75	0.1 to 1K (Dual)	±100	J [±5]	$E = \sqrt{P \cdot R}$
TPJ200	One element 200	0.1 to 1K (Single)			

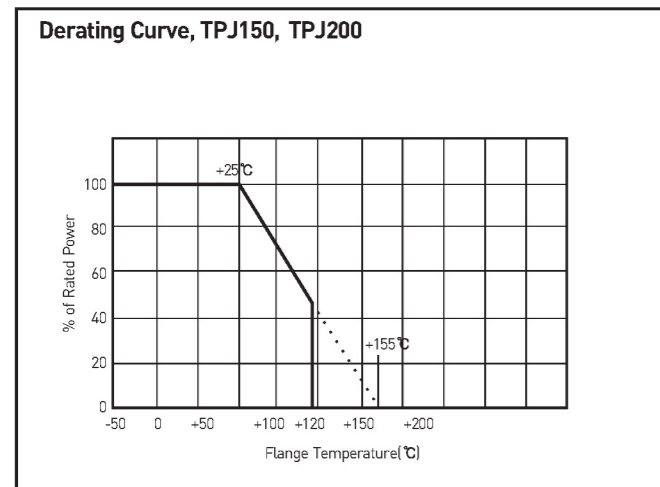
See note:1. With heat sink, 0.9K/W.

## CHARACTERISTICS

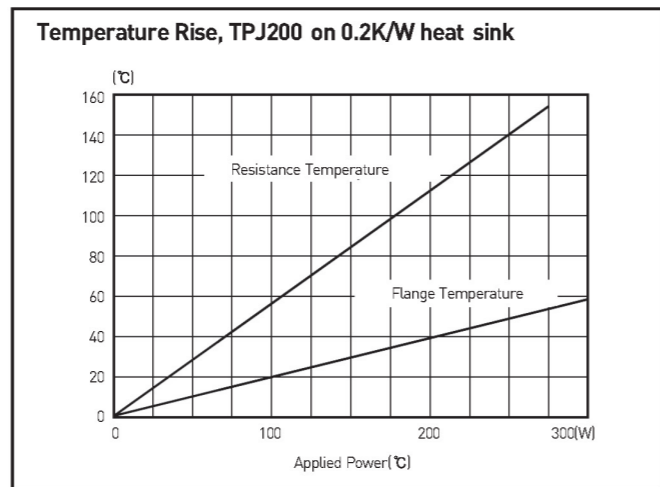
Values in [ ] mean change in Ω after test

Operation Temp. Range	-55°C ~ +155°C	
Insulation Resistance	[Over 1000 MΩ]	Between terminals and flange
Dielectric Withstanding Voltage	2500VDC 60 sec.	
Temperature Cycle	±[1.0 % + 0.05Ω]	-55°C, 30 minutes, +155°C 30minutes, 20cycles.
Short Time Overload	±[0.25 % + 0.05Ω]	Rating watt x 2.5, 2.5 sec., with heat sink.
Soldering Heat	±[0.25 % + 0.05Ω]	350±5°C, 3 sec.
Solderability	Soldering is not available	
Vibration	±[0.25% + 0.05Ω]	
Moisture Resistance	±[1.0 % + 0.05Ω]	70°C, 90-95%RH, DC 0.1W, 1000hours.
Load Life	±[1.0 % + 0.05Ω]	25°C, 90 minutes on, 30minutes off, 1000hours.

## DERATING CURVES



## TEMPERATURE RISE



## DIMENSIONS(mm) AND STRUCTURE

**Dimensions**

Symbols	(mm)	Note
A	38±0.5	
B	25±0.5	
C	13±0.5	
D	30±0.2	
E	15±0.5	
F	13±0.5	
G	2-4.2dia	
H	4-M4.0	
J	10±0.2	

**Schematics**

## ORDERING PROCEDURE EXAMPLE

