

Chassis Mounting Non-Inductive High Power Resistors

These are compact SOT227, 150W~600W high power resistors. Attachment to an air cooled or water cooled heat sink is necessary. These units exhibit M4 screw terminals. Very low series inductance, high density installation, are vibration proof and exhibit perfect heat dissipation. Applications include: Sunbber resistors for power supplies, gate resistors, pulse generators, high frequency amplifiers, dumping resistors for theater audio equipment (i.e. Dividing networks for loud speaker systems)



GENERAL SPECIFICATIONS

Model	1) Power Rating[W]	Weight[g]	Thermal Resistance [°C/W]	Resistance Range[Ω]	2) TCR [ppm/°C]	Tolerance[%]	Maximum Working Voltage[V]
TPM150	150	20.0	0.5	0.1 to 100K (Dual)	±100	J[±5]	700V
TPM250	250	30.0	0.32				
TPM200	200	20.0	0.5	0.1 to 100K (Single)			
TPM300	300	30.0	0.32				
TPM550	600	30.0	0.11	50 to 500 (Dual)			
TPM600	600	30.0	0.11	50 to 1K (Single)			

1) Conditions: At flange -55°C to +25°C

2) For -55°C to +120°C

CHARACTERISTICS

Values in [] mean change in Ω after test

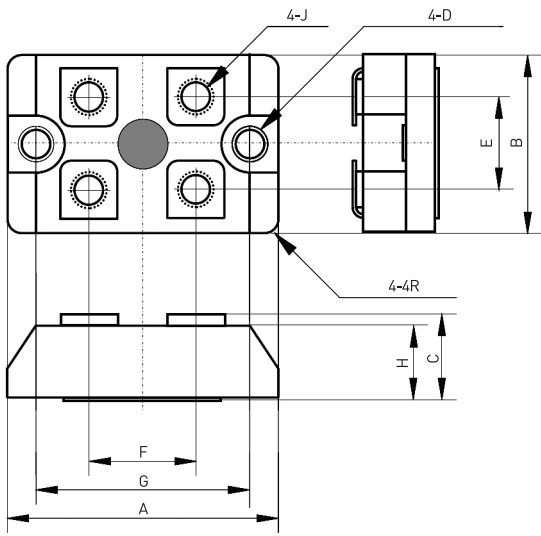
Operating Temperature Range	-55°C ~ +120°C	
Insulation Resistance	[Over 1000MΩ]	Between terminals and flange
Dielectric Withstanding Voltage	AC2500V for 60 seconds	
Temperature Cycle	±(1.0%+0.05 Ω)	-55°C, 30minutes, +120°C, 30minutes, 20cycles
Humidity	±(1.0%+0.05 Ω)	40°C, 90~95% RH, DC 0.1 x Power rating, 1000hours
Vibration	±(0.25%+0.05 Ω)	
Flammability	UL94V-0	
Load Life	±(1.0%+0.05 Ω)	25°C, 90minutes on, 30minutes off, 1000hours

Note: IEC60068-2-6, displacement 0.75mm or acceleration 100m/sec², 10Hz-54Hz sweep, 10 cycles X-Y-Z direction

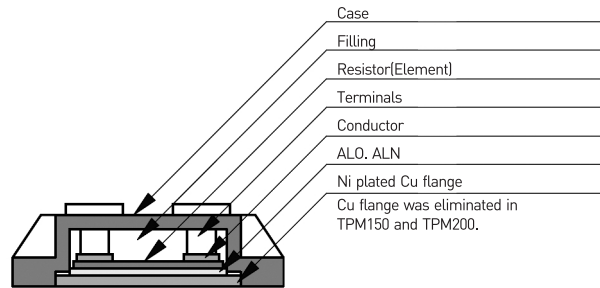
ORDERING PROCEDURE EXAMPLE

P/N	TYPE	TCR[ppm/°C]	Resistance	Tolerance[%]	Note
TPM250XA10+10 Ω J	TPM250X	A(100)	10+10 Ω	J (5)	Two Resistors
TPM250YA50+50 Ω J	TPM250Y	A(100)	50+50 Ω	J (5)	Two Resistors
TPM300YA50 Ω J	TPM300Y	A(100)	50 Ω	J (5)	One Resistors
TPM300Z100 Ω J	TPM300Z	A(100)	100 Ω	J (5)	One Resistors
TPM550XA100+100 Ω J	TPM550X	A(100)	100+100 Ω	J (5)	Two Resistors
TPM550YA50+50 Ω J	TPM550Y	A(100)	50+50 Ω	J (5)	Two Resistors
TPM600YA500 Ω J	TPM600Y	A(100)	500 Ω	J (5)	One Resistors
TPM600ZA100 Ω J	TPM600Z	A(100)	100 Ω	J (5)	One Resistors

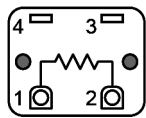
DIMENSIONS [mm] AND STRUCTURE



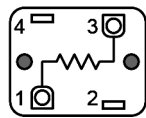
	mm	+/-mm
A	38.0	+/-0.2
B	25.0	+/-0.2
C	11.8	+/-0.5
D	4.2	+/-0.1
E	13.0	+/-0.3
F	15.0	+/-0.4
G	30.0	+/-0.1
H	10.0	+/-0.2
J	M4	



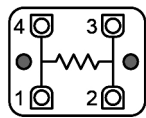
Schematics



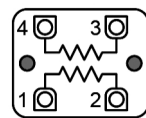
TPM200X
TPM300X
TPM600X



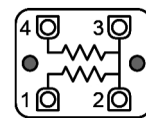
TPM200Y
TPM300Y
TPM600Y



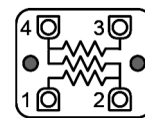
TPM200Z
TPM300Z
TPM600Z



TPM150X
TPM250X
TPM550X

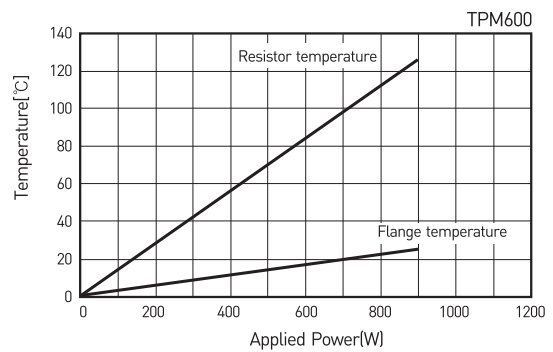
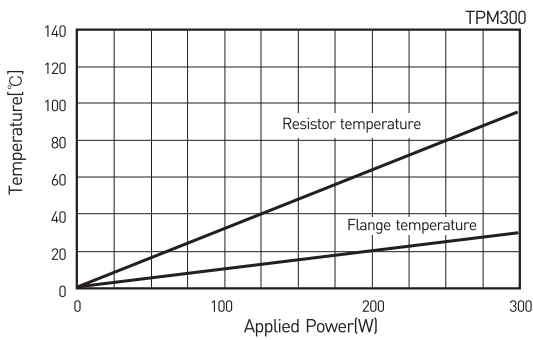


TPM150Y
TPM250Y
TPM550Y



TPM150Z
TPM250Z
TPM550Z

TEMPERATURE RISE CURVES



DERATING CURVE

