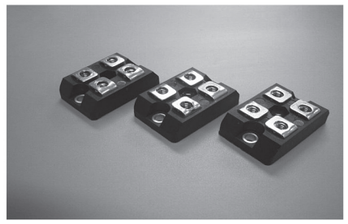
Chassis Mounting Non-Inductive High Power Resistors

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]	Resistance Range[Ω]	2] TCR [ppm/℃]	Tolerance[%]	Maximum Working Voltage[V]
TPM150	150	20.0	0.1 to 1K (Dual)	±100	±5	$E=\sqrt{P\cdot R}$
TPM250	250	30.0				
TPM200	200	20.0	0.1 to 1K (Single)			
TPM300	300	30.0				
TPM550	600	30.0	50 to 300 (Dual)			
TPM600	600	30.0	50 to 1.5K (Single)			

1) Conditions: At Flange -55 to +25℃
2) For -55 to+120℃

■ CHARACTERISTICS

Values in [ ]mean change in Ω after test

Operation Temp. Range		-55℃ ~ +120℃
Insulation Resistance	[Over 1000MΩ]	Between terminals and flange.
Dielectric Withstanding Voltage		DC2500V for 60 secs.
Short Time Overload	±[0.25%+0.05Ω]	Power rating x 2.5, 2.5seconds, with heat sink.
Temperature Cycle	±[1.0%+0.05Ω]	-55℃, 30minutes,+120℃, 30minutes, 20cycles.
Humidity	±[1.0%+0.05Ω]	40℃, 90~95%RH, DC 0.1W, 1000hours.
Vibration	±[0.25%+0.05Ω]	
Flammability	UL94V-0	
Load Life	±[1.0%+0.05Ω]	25℃, 90minutes on, 30minutes off, 1000hours.

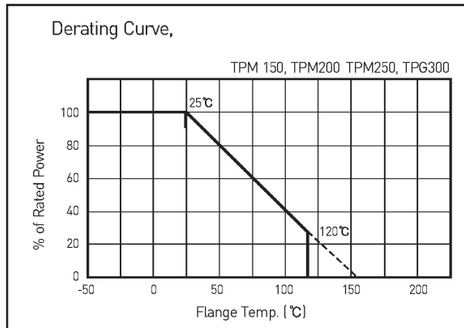
Note: IEC60068-2-6, displacement 0.75mm or acceleration 100m/sec², 10Hz-54Hz sweep, 10 cycles X-Y-Z direction

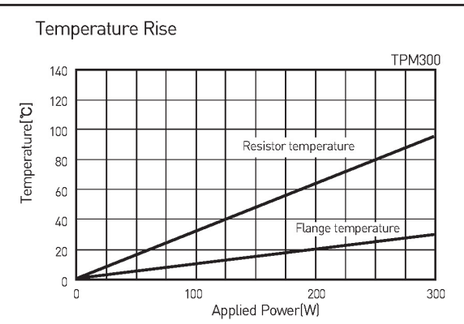
■ ORDERING PROCEDURE EXAMPLE

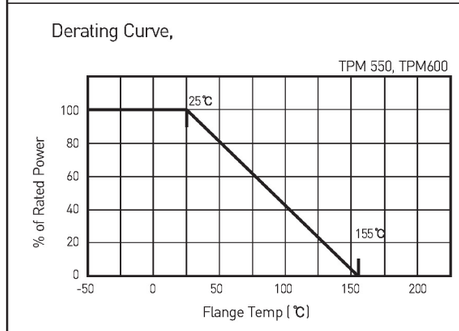
P/N	TYPE	TCR	Resistance	Tolerance(%)	Note
TPM250XA10+10Ω J	TPM250X	A(100ppm/K)	10+10Ω	J (5)	Two Resistors
TPM250YA50+50Ω J	TPM250Y	A(100ppm/K)	50+50Ω	J (5)	Two Resistors
TPM300YA50Ω J	TPM300Y	A(100ppm/K)	50Ω	J (5)	One Resistors
TPM300Z100Ω J	TPM300Z	A(100ppm/K)	100Ω	J (5)	One Resistors
TPM550XA100+100Ω J	TPM550X	A(100ppm/K)	100+100Ω	J (5)	Two Resistors
TPM550YA50+50Ω J	TPM550Y	A(100ppm/K)	50+50Ω	J (5)	Two Resistors
TPM600YA500Ω J	TPM600Y	A(100ppm/K)	500Ω	J (5)	One Resistors
TPM600ZA100Ω J	TPM600Z	A(100ppm/K)	100Ω	J (5)	One Resistors

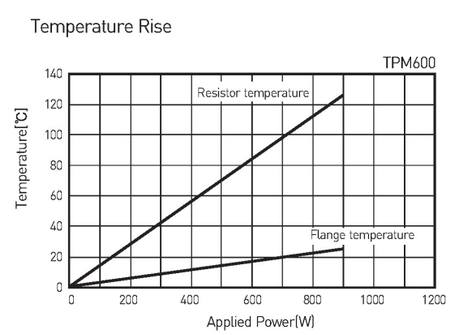
TPM150~600 RoHS COMPLIANT

■ DERATING CURVES AND TEMPERATURE RISE CURVES

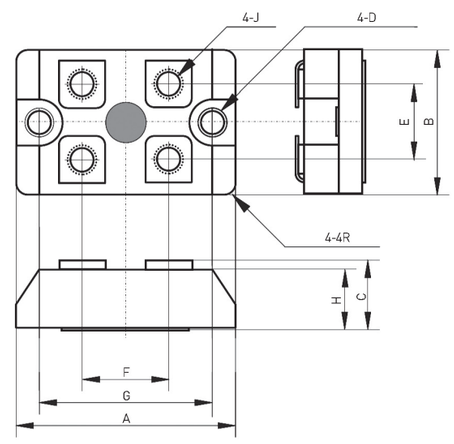




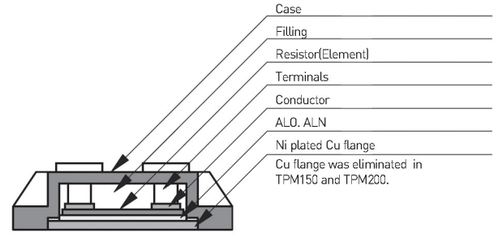




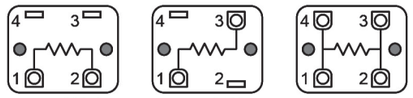
■ DIMENSIONS [mm] AND STRUCTURE



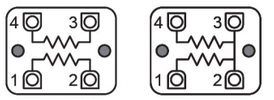
	mm	+/-mm
A	38.0	+/-0.2
B	25.0	+/-0.2
C	11.8	+/-0.5
D	4.2	+/-0.1
E	13.0	+/-0.3
F	15.0	+/-0.4
G	30.0	+/-0.1
H	10.0	+/-0.2
J	M4	



Schematics



TPM200X TPM300X TPM600X | TPM200Y TPM300Y TPM600Y | TPM200Z TPM300Z TPM600Z



TPM150X TPM250X TPM550X | TPM150Y TPM250Y TPM550Y