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Resistors And
Resistive Applications

TNP10P PRECISION POWER RESISTOR
TO126

These are TO126 super precision power resistors. They can achieve 1W in free air and 5W when attached to the copper foil of a circuit board. These models exhibit low noise, high frequency operation and high density installation. Applications include: Constant current sources, electronic load circuits, LSI tests, measurement, audio PA systems and motor control.

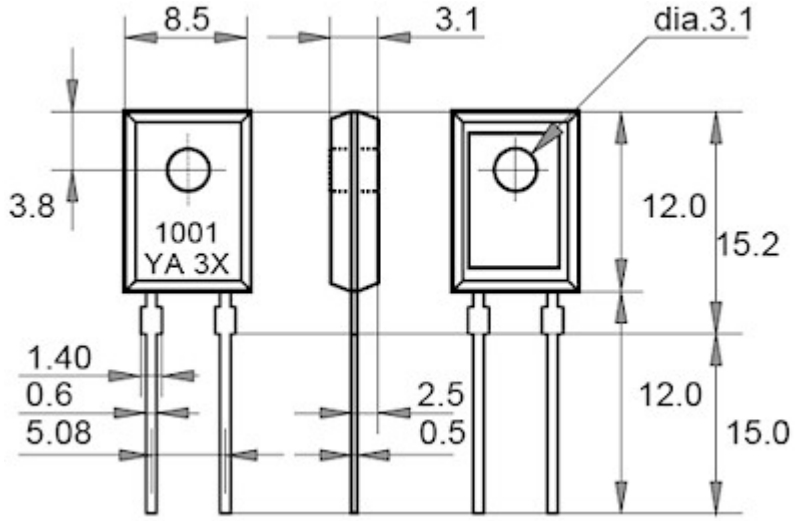
GENERAL SPECIFICATIONS

Item	Specification Performance		
Resistance Range	0.1-0.99R	1-5R	5-51KR
TCR[ppm/C]	+-25(E)	+-5(Z), +-10(N), +-25(E)	+-5(Z), +-10(N), +-25(E)
Tolerance[%]	1(F), 2(G), 5(J)	+-0.5(D), +-1(F)	See Note 1
Nominal Resistance	E24 or any value		
Temp. Range	-55C to +155C		
Rated Temperature	+25C		
Rated Power	5W (-55 to 25C flange temperature), 0.5W free air		
Derated Rated Power	5W (-55 to 25C flange temperature) At +-0.1(B), +-0.25(C)		
Heat Resistance	6.0 C/W Hot spot to flange		
Max Applied Voltage	300V or Root(PR)		
Inductance	9nH At stand-off		
Capacitance	1pF At stand-off		

Notes:
1/ +-.05(A), +-0.1(B), +-0.25(c), +-0.5(D)

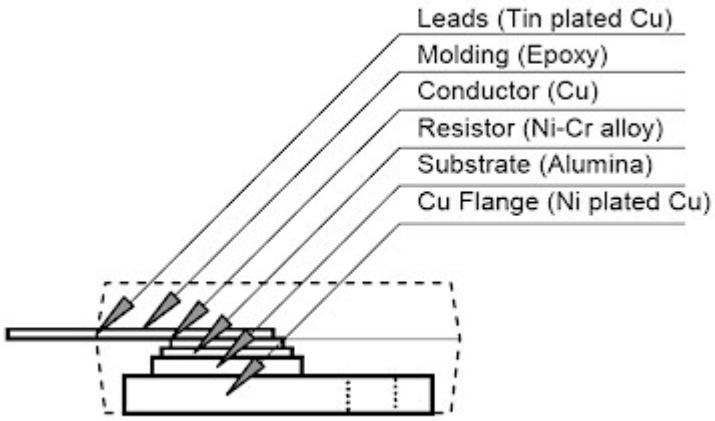
Item	Performance	Condition
Withstanding Voltage	DC2000V	60 Sec.
Insulation Resistance	Over 1000MR	Between Terminals and Flange
Short Time Overload	+-(0.25%+0.05R)	Rated P X 2.5 sec. w/heatsink
Temp. Cycle	+-(0.25%+0.05R)	-55C 30min., 120C 30min. 5 cycles
Humidity	+-(1.0%+0.05R)	60C, 90min. ON, 30min. OFF, 1000hrs
Load Life	+-(1.0%+0.05R)	25C, 90min. ON, 30min. OFF, 1000hrs
Soldering Heat	+-(0.1%+0.05R)	350 +-5C, 3 sec.
Solderability	Over 3/4 of surface	230 +-5C, 3 sec.
Vibration	+-(0.25%+0.05R)	JISC5202
Terminal Strength	+-(0.25%+0.05R)	Tension 4.9N, 1-5 sec. Bend2.45N, 90 degree, 2 times

DIMENSIONS



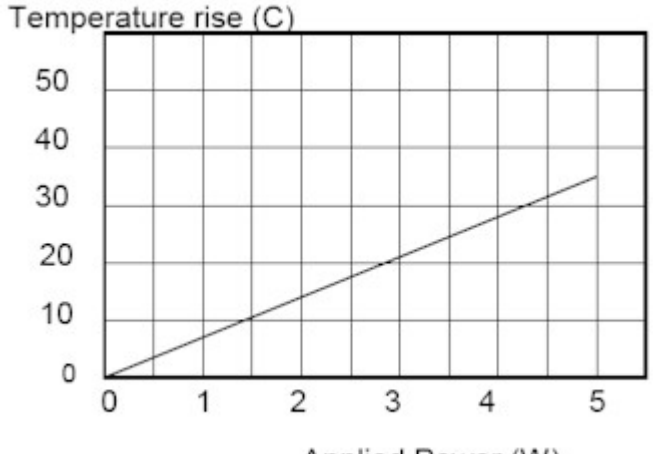
CONSTRUCTION DIAGRAM

.Material

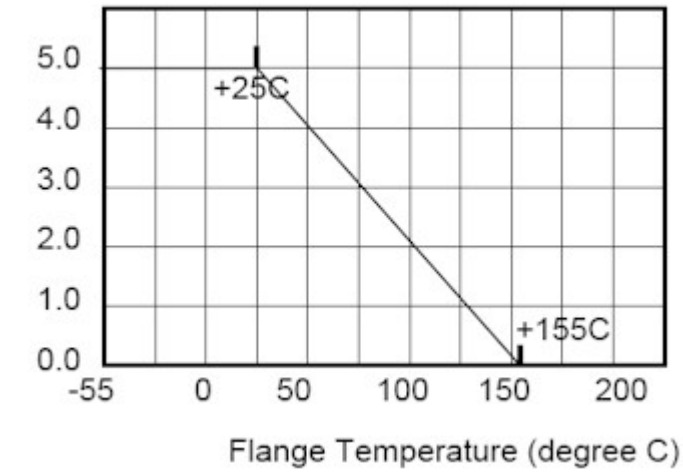


Between flange and resistor are insulated

TEMPERATURE RISE AND DERATING CURVES



Rating Power(W), with 2.8K/W heat sink.



ORDERING PROCEDURE EXAMPLE