TNP10 Series

Thin Film TO-126 Resistor

Ohmite offers a high power heatsinkable TO-126 packaged resistor. They can achieve 1W in free air and 10W when attached to a proper heatsink. The non-inductive design is ideal for high speed circuits. 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.



SPECIFICATIONS

Series	Wattage*	Resistance Range (Ω)	Tolerance	TCR (ppm/°C)	Heat Resistance**
		0.09-0.1	5% (J)	±250	
TNP10S	10W	0.1-9.1	±1% (F), 5% (J)	±100	5.9°C/W
		10-51K	±1% (F)	±50	

^{*} Flange temp. -55° - 25°C; 1W at free air **From hot spot to flange

CHARACTERISTICS

Resistance Range	Values listed below; others on request	
Temp. Range	-55°C to +155°C	
Rated Temperature	+25°C	
Rated Power	10W (-55 to 25°C flange temperature), 1W free air	

Withstanding Voltage	2000VAC	nals and flange
Insulation Resistance	Over $1000M\Omega$	Between terminals and flange
Moisture Resistance	±(1.0%+0.05Ω)	60°C, 90 to 95%RH, DC 0.1W, 1000 hrs.
Load Life	±(1.0%+0.05Ω)	25°C, 90min. ON, 30min. OFF, 1000hrs

Over 95% of surface

Item Performance

Soldering Heat $\pm (1.0\% + 0.05\Omega)$

±0.25%

Solderability

Vibration

Condition

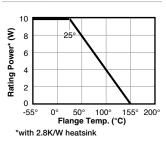
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350 ±5°C, 3 sec.

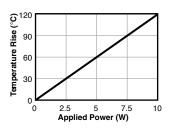
230 ±5°C, 3 sec.

IEC 60068-2-6

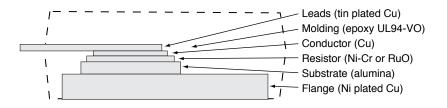
Derating



Temperature Rise



Coonstruction



THIS PRODUCT IS DESIGNED FOR USE WITH PROPER HEATSINKING.

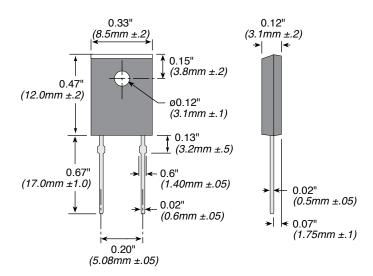
Maximum base plate temperature of the resistor must be monitored and kept within specified limits to establish the power rating. Best technique is to attach a thermocouple to the side of the base plate of the resistor. Temperature of plastic housing or heat sink cannot be used to establish rating of the resistor.

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DIMENSIONS

(in./mm)

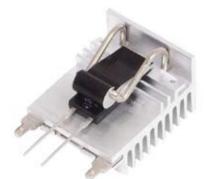


ORDERING INFORMATION

Standard part numbers

Other values on request						
TNP10SHR100JE TNP10SHR150JE TNP10SAR200JE TNP10SHR250JE TNP10SHR330JE	TNP10SA5R00FE TNP10SA7R50FE TNP10SC10R0FE TNP10SC12R0FE TNP10SC15R0FE	TNP10SC75R0FE TNP10SC100RFE TNP10SC120RFE TNP10SC150RFE TNP10SC200RFE				
TNP10SAR500JE TNP10SA1R00FE TNP10SA1R50FE TNP10SA2R00FE TNP10SA3R00FE	TNP10SC20R0FE TNP10SC25R0FE TNP10SC27R0FE TNP10SC47R0FE TNP10SC50R0FE	TNP10SC330RFE TNP10SC560RFE TNP10SC1K00FE TNP10SC10K0FE				

ASSOCIATED PARTS



TNP10 resistors may be mounted with Ohmite C Series (parts C126-XXX) heatsinks: http://www.ohmite.com/cat/sink_c.pdf

