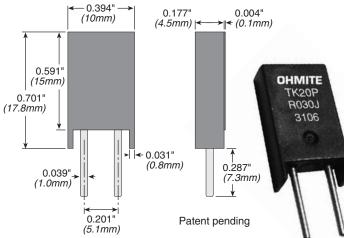


20 and 15 Watt TO-220 Package Thick and Thin Film



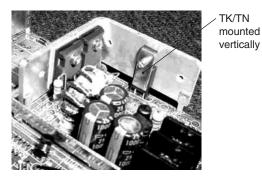
Ohmite is proud to introduce the newest addition to our family of Heat Sinkable Power Resistors. The TK/TN Series offers 3 major advances over existing TO-220 products:

- Low Resistance Values down to 0.03 ohms for current sense applications
- Low Cost
- Thin Film Construction is the first Thin Film power resistor in heatsinkable packaging on the market.

WHY THIN FILM?

Thin film technology offers the following performance advantages:

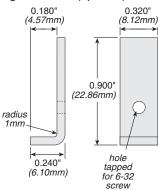
- Extremely stable (low TCR)
- · Low Noise (parasitic capacitance and resistance)
- Excellent High Frequency Performance
- High Accuracy (tight tolerances)

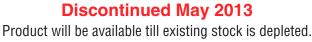


BRACKET

6200E: recommended mounting bracket kit (optional)

RoHS





SPECIFICATIONS

Material

Resistive element: Thick or thin film chip resistor Terminals: Tin plated copper (100Sn) Case: Ryton

Heatsink plate: Black anodized aluminum

Electrical	Т	hick film TK20	Thin film TN15		
Power rating: 20W 15W (Heat-sink dependent; must be attached to a proper heat sink for full power rating. Max. case temp. cannot exceed 150°C.)					
Derating:	Linear, 100% at 25°C to 0% at 150°C				
Resistance Range:		$10m\Omega$ - $10K\Omega$	4Ω-10ΚΩ		
Tolerance:		5%	1%, 2%		
Max. working voltage:	0.01Ω-1ΚΩ: 3KΩ-10KΩ:	√20*R 150V	√15*R 200V		
	0.01Ω-0.1Ω: 0.3Ω-10KΩ: 4Ω-10KΩ:	10A √20/R	√15/R		
	0.01Ω-0.1Ω: 0.3Ω-10KΩ:	±300ppm ±200ppm	±50ppm		
Thermal resistance. RT	4Ω-10ΚΩ:	<6.25°C/W	(lower available) <8.33°C/W		

Thermal resistance. RTH:

	S T A N D A R I) PART NUM	BERS
	TK20 thick film 20 watt	thin	l15 film watt
Ohms	5% tol.	1% tol.	2% tol.
0.03 0.04 0.05 0.075	TK20PR030JE TK20PR040JE TK20PR050JE TK20PR075JE		
0.1 0.3 0.4 0.5 0.75	TK20PR100JE TK20PR300JE TK20PR400JE TK20PR500JE TK20PR750JE		
1 3 4 5 7.5	TK20P1R00JE TK20P3R00JE TK20P4R00JE TK20P5R00JE TK20P7R50JE	TN15P4R00FE TN15P5R00FE TN15P7R50FE	
10 30 40 50 75	TK20P10R0JE TK20P30R0JE TK20P40R0JE TK20P50R0JE TK20P75R0JE	TN15P30R0FE TN15P40R0FE TN15P50R0FE TN15P75R0FE	TN15P10R0GE
100 300 400 500 750	TK20P100RJE TK20P300RJE TK20P400RJE TK20P500RJE TK20P750RJE	TN15P300RFE TN15P400RFE TN15P500RFE TN15P750RFE	TN15P100RGE
1000 3000 4000 5000 7500	TK20P1K00JE TK20P3K00JE TK20P4K00JE TK20P5K00JE TK20P7K50JE	TN15P3K00FE TN15P4K00FE TN15P5K00FE TN15P7K50FE	TN15P1K00GE
10,000	TK20P10K0JE		TN15P10K0GE

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.

ORDERING INFORMATION

T K 2 0 P TCB · Series (TN15 only)P = ±50ppm TK20 = 20W thick film TN15 = 15W thin film = ±25ppm V = +10ppm ±5ppm

1 R 0 0 J E Resistance **Tolerance RoHS** Example: F = 1%R075 = 75m Ω G = 2% Compliant $7R50 = 75\Omega$ $75R0 = 75\Omega$ $7K50 = 750\Omega$ J = 5%

TK/TN