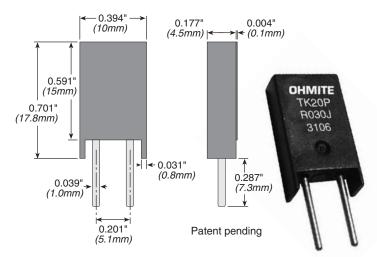
TK/TN Series

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:

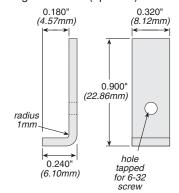
- Extremely stable (low TCR)
- Low Noise (parasitic capacitance and resistance)
- Excellent High Frequency Performance
- High Accuracy (tight tolerances)



TK/TN mounted vertically

BRACKET

6200E: recommended mounting bracket kit (optional)



Discontinued May 2013

Product will be available till existing stock is depleted.

SPECIFICATIONS

Thermal resistance. Rтн:

Material

Resistive element: Thick or thin film chip resistor

Terminals: Tin plated copper (100Sn)

Case: Ryton

Heatsink plate: Black anodized aluminum

Electrical	- 11	nick film 1 K20	I NIN TIIM I N15	
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:	Lin	ear, 100% at 25	5°C to 0% at 150°C	
Resistance Range:		10m Ω -10K Ω	4Ω -10 $K\Omega$	
Tolerance:		5%	1%, 2%	
Max. working voltage:	: 0.01Ω-1ΚΩ:	√20*R	√15*R	
	3ΚΩ-10ΚΩ:	150V	200V	
Max. working current:	0.01Ω - 0.1Ω :	10A		
	0.3Ω - $10K\Omega$:	√20/R		
	4Ω -10KΩ:		√15/R	
TCR:	0.01Ω - 0.1Ω :	±300ppm		
	0.3Ω - $10K\Omega$:	±200ppm		
	4Ω-10ΚΩ:		±50ppm	

<6.25°C/W

(lower available)

<8.33°C/W

	STANDARI	D PART NUM	BERS	
Ohms	TK20 thick film 20 watt 5% tol.	thin	TN15 thin film 15 watt	
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.