TBH Series



Ohmite's TBH25 TO220 style resistors are designed for a variety of uses that require intermediate heatsinkable power at an economical price. Engineered for industrial applications, these resistors deliver reliable performance to traditional high-quality Ohmite standards.

FEATURES

- 25 Watts, @ 25°C case temperature
- Non-Inductive Performance
- Low Thermal Resistance
- Anti-static tube packaging available
- Economically priced
- Resistance element is electrically insulated from metal heat sink mounting tab



APPLICATIONS

- Power SuppliesIndustrial Controls
- Pre-load/Damping
- Snubber/Bleeder
- Automotive Steering
- Current Sensing

CHARACTERISTICS

RoHS

Resistor	Thick film element above 1 Ω , Ni-Cu metal element below 1 Ω	Test	Condition	Result	
		Load Life	(1000hrs @ rated power)	max. ΔR ±1%	
Case	High Temperature Plastic	Moisture	(MIL-STD-202, method 106)	max. ΔR ±0.5%	
Terminals	Solder coated phospher bronze	Resistance			
Derating	100% @ 25°C to 0% @ 150°C curve refer- enced to case temperature	Short Time(2x rated power, not to exceedOverload1.5x max. operating voltage)		max. ΔR ±0.3%	
Dielectric Strength	1000 VDC	Solderability	Solderability (MIL-STD-202, method 208)		
Max. Mounting Torque	0.9Nm	Thermal Shock	(MIL-STD-202, method 107, cond. F)	max. ΔR ±0.3%	
Operating Temperature Range	-55°C to +150°C	Terminal Strength	(MIL-STD-202, method 211, cond. A (pull test) 2.4N)	max. ΔR ±0.2%	
Temperature Coefficient		Vibration	(MIL-STD-202, method 204, cond. D)	max. ΔR ±0.2%	
Thermal Resistance	5°C/W				
Tolerance	5%				
Power	25 Watts. Rating based on 25°C case tem- perature. The case temperature is to be used for the purposes of establishing the applied power limit. The case temperature must be made with thermocouple contacting the cen- ter of the component's mounting tab mounted on designated heat sink.				
Resistance Range	0.03Ω - $10K\Omega$. Standard values listed at left, others available upon special request.				
Max. Operating	350V				

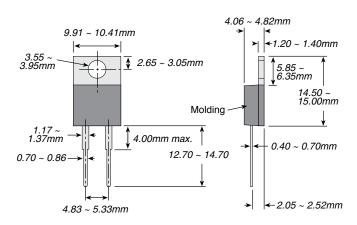
Voltage

TBH Series

(mm)

25 Watt TO220 Package Thick Film Power

DIMENSIONS



Note: These dimensions apply to TBH products manufactured after June 10, 2016

ORDERING INFORMATION

RoHS compliant Non-BoHS version unavailat

Standard Part Numbers

ГВН	25P2R0	0 J E	Ohms	Part Number 5% Tolerance	Ohms	Part Number 5% Tolerance
Series Ohm Exam R030 10R0	Ohm Value Example: R030 = 0.030Ω 10R0 = 10Ω 1K50 = 1500Ω	Tolerance mple: J = 5%, standard 0 = 0.030Ω 0 = 10Ω	0.030 0.036 0.040 0.047 0.050 0.075	TBH25PR030JE TBH25PR036JE TBH25PR040JE TBH25PR040JE TBH25PR050JE TBH25PR075JE	100 150 220 240 330	TBH25P100RJE TBH25P150RJE TBH25P220RJE TBH25P240RJE TBH25P330RJE TBH25P470RJE TBH25P470RJE TBH25P1K00JE TBH25P1K00JE TBH25P1K50JE TBH25P2K00JE
	100 - 10001		2 7.5 10 15	TBH25P2R00JE TBH25P2R00JE TBH25P7R50JE TBH25P10R0JE TBH25P15R0JE TBH25P22R0JE	470 510 1000 1500 2000	
			22 30 33 47 51 75	TBH25P22R0JE TBH25P30R0JE TBH25P33R0JE TBH25P47R0JE TBH25P51R0JE TBH25P75R0JE	2700 10,000	TBH25P2K70JE TBH25P10K0JE

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.

