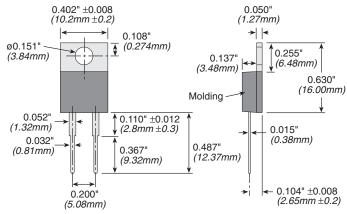
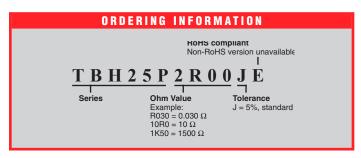
TBH Series

25 Watt TO220 Package Thick Film Power





Note: These dimensions apply to TBH products manufactured after March 2007



STANDARD PART NUMBERS FOR TBH SERIES **Part Number** Part Number Ohms 5% Tolerance Ohms 5% Tolerance TBH25PR030JE TBH25P100RJE 0.030 100 0.036 0.040 TBH25PR036JE TBH25PR040JE 150 220 TBH25P150RJE TBH25P220RJE 0.047 TBH25PR047JE 240 TBH25P240RJE 0.050 0.075 TBH25PR050JE TBH25PR075JE 330 TBH25P330RJE TBH25P470RJE TBH25P510RJE TBH25P1K00JE 470 TBH25P2R00JE TBH25P7R50JE 2 7.5 510 1000 10 TBH25P10R0JE 1500 TBH25P1K50JE 15 22 2000 TBH25P2K00JE TBH25P22R0JE TBH25P2K70JE TBH25P10K0JE 2700 30 33 47 TBH25P30R0JE 10,000 TBH25P33R0JE TBH25P47R0JE TBH25P51R0JE 51 75 TBH25P75R0JE Check product availability at www.ohmite.com

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 Supplies
- Industrial Controls
- Automotive Steering
- Pre-load/Damping
- Snubber/Bleeder
- Current Sensing

SPECIFICATIONS

Material

Resistor: Thick film element above 1Ω , Ni-Cu metal element below 1Ω

Case: High Temperature Plastic Terminals: Solder coated phospher bronze

Electrical:

Derating: 100% @ 25°C to 0% @ 150°C curve referenced to case temperature

Dielectric Strength: 1000 VDC Max. Mounting Torque: 0.9Nm Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: $0.03-10\Omega$ @ ± 100 ppm $11\Omega-10$ KΩ @ ± 50 ppm

Thermal Resistance: 5°C/W

Power: 25 Watts. Rating based on 25°C case temperature. 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 center of the component's mounting tab mounted on designated heat sink.

Resistance Range: 0.03Ω - 10KΩ. Standard values listed at left, others available upon special request.

Max. Operating Voltage: 350V

TEST DATA		
Load Life	(1000hrs @ rated power)	max. ΔR ±1%
Moisture Resistance	(MIL-STD-202, method 106)	max. ΔR ±0.5%
Short Time Overload	(2x rated power, not to exceed 1.5x max. operating voltage)	max. ΔR ±0.3%
Solderability	(MIL-STD-202, method 208)	
Thermal Shock	(MIL-STD-202, method 107, cond. F)	max. ΔR ±0.3%
Terminal Strength	(MIL-STD-202, method 211, cond. A (pull test) 2.4N)	max. ΔR ±0.2%
Vibration	(MIL-STD-202, method 204, cond. D)	max. ΔR ±0.2%

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.