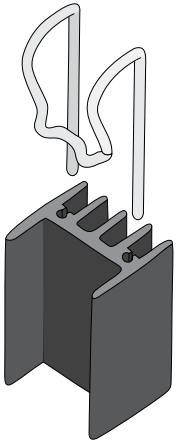


W Series Heatsinks

For TO-220 and TO-247 devices



Patent Pending

T220 0.72" (18.3mm)
T247 0.92" (23.4mm)

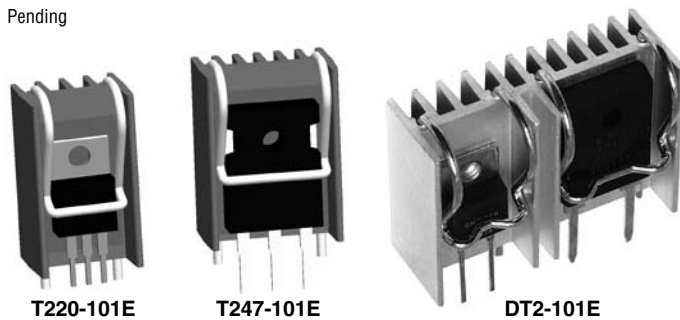
0.63" (16.0mm)

T220 1.20" (30.5mm)
T247 1.20-1.26" (30.5-32.0mm)

0.14" (3.6mm)

T220 0.50" (12.7mm)
T247 0.71" (18.0mm)

Pin diameter 0.06" (1.5mm)



T220-101E

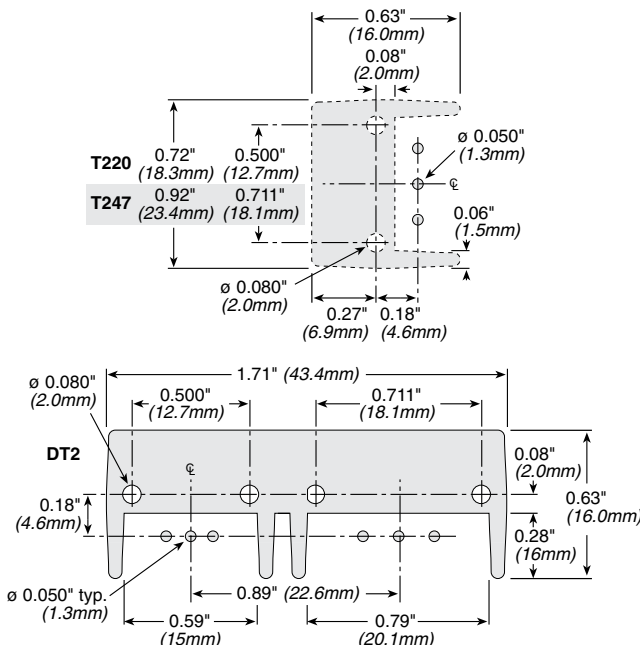
T247-101E

DT2-101E

Heatsink Part Number	For Package Type	Ohmite Resistor Series	Surface Area (in ²)	Weight	Thermal Resistance*
WA-T220-101E	TO-220	TB25, TCH35	6.5	0.35 oz/10g	R _{s-a} =12°C/W
WV-T220-101E	TO-220	TB25, TCH35	6.5	0.35 oz/10g	R _{s-a} =13°C/W
WA-T247-101E	TO-247	TEH70, TEH100	8.4	0.42 oz/12g	R _{s-a} =11°C/W
WV-T247-101E	TO-247	TEH70, TEH100	8.4	0.42 oz/12g	R _{s-a} =12°C/W
WA-DT2-101E	TO-220 & TO-247	TB25, TCH35, TEH70, TEH100	15.1	0.79 oz/22g	R _{s-a} =7°C/W
WV-DT2-101E	TO-220 & TO-247	TB25, TCH35, TEH70, TEH100	15.1	0.79 oz/22g	R _{s-a} =8°C/W

*Natural convection at 10W heat dissipation

LAND PATTERN



The unique design (patent pending) of the W Series heat sinks combines a tin plated, solderable, integral spring clip with an extruded aluminum heat sink body for an all-in-one solution to through-hole mounting of TO-220 or TO-247 packages. These self-aligning heat sinks feature solderable feet and an integrated clip with 13.2 (lbf) of force on the center of the device to enhance thermal performance.

FEATURES

- Reduced Assembly Cost:** spring clip and auto-align feature makes fasteners and fixtures obsolete, along with stray metal filings from tapped holes
- Maximum Repeatability:** clamping force of the spring clip is not degraded by repeated loading and unloading
- Maximum Heat Transfer per Unit Space:** maximum surface area per unit volume and consistent mounting force reduces thermal resistance
- Maximum Resistance to Shock and Vibration:** light weight, resilient spring clip locks the component in place and is highly resistant to shock and vibration

- Maximum Reliability:** helps prevent short circuits by eliminating metal particles from thread tapping
- RoHS Compliant**

SPECIFICATIONS

Heat Sink: Aluminum alloy 6063-T5 or equivalent.

Spring Clip: Music wire, per ASTM A228

Pin: Solderable 100% tin over copper strike

Interface thermal resistance: for improvement, use thermal joint compound or 0.005 Grafoil (TGon 800 by Laird)

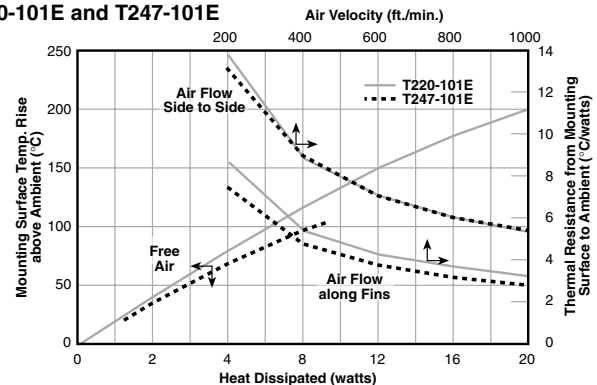
Interface electrical isolation: Sil-Pad 900S by Bergquist or equivalent

Mounting: Vertical thru-hole mount

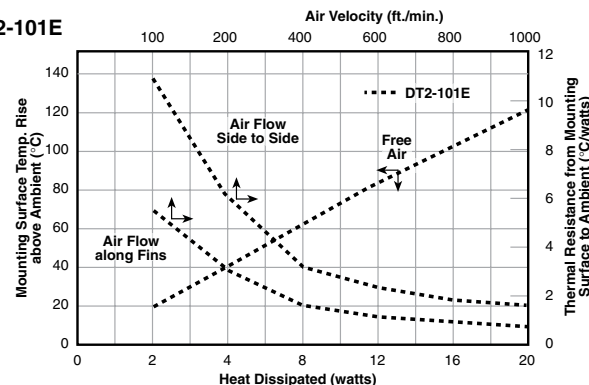
Clip Force: 13.2 lbf.

HEAT DISSIPATION

T220-101E and T247-101E



DT2-101E



STANDARD PART NUMBERS FOR W SERIES

Part Number	Description	Packaging
WA-T220-101E	Heat sink for TO-220, black anodized	Bulk
WV-T220-101E	Heat sink for TO-220, degreased	Bulk
WA-T247-101E	Heat sink for TO-247, black anodized	Bulk
WV-T247-101E	Heat sink for TO-247, degreased	Bulk
WA-DT2-101E	Heat sink for TO-247 & TO-220, black anodized	Bulk
WV-DT2-101E	Heat sink for TO-247 & TO-220, degreased	Bulk