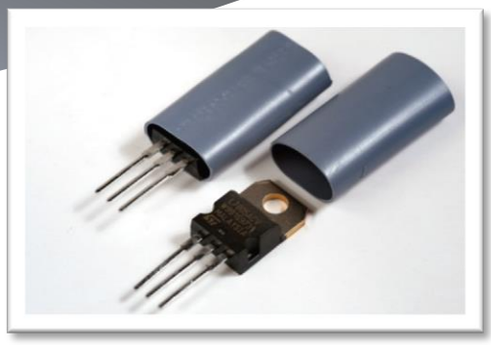
T-Tube 1000

Thermally Conductive Tube



T-Tube 1000 is an electrically insulating, thermally conductive tube designed to connect heat dissipating electronic devices to a cold wall or nearby metal work.

T-Tube 1000 is an economical thermal solution that enables all round electrical isolation.**T-Tube 1000** is highly suited to mounting TO220, TO247, TO3P and TO218 components to a heatsink or nearby metal work via a spring, metal clip or clamp. With an all round soft surface T-Tube 1000 will obviate micro air voids between mating surfaces at the interface through the cold flow action of the material, reducing thermal resistance to an absolute minimum.

Features

- Electrically insulating and moderate thermal performance properties
- Thermal conductivity = 1.0. W/mK
- Requires mounting pressure via spring, metal clip or clamp

Benefits

- Guaranteed electrical isolation
- Fills micro air voids between device and mating metal work at the interface. Improving thermal performance
- Maintains temperature stability over a wide range of temperatures

Availability

- Standard thickness of 0.5mm
- Supplied in a wide variety of diameters and lengths on request

Recommended Uses

- Any heat generating surface to metal that requires good thermal performance and electrical insulation
- Cooling power devices mounted to a heatsink or chassis in PSUs
- Thermally coupling electronic components that require electrical isolation to nearby metal work

Typical Physical Properties

Property (unit)	Test Method	T-Tube 1000
Colour	Visual	Grey
Thermal Conductivity (W/mK)	ASTM D5470	1.0
Hardness (Shore 00)	ASTM D2240	75
Thermal Impedance (K-cm²/W @ 69KPa)	ASTM D5470	3.80
Operating Temp. (°C)	-	-40 - +180
Flame Rating	UL94	V-0

Electrical and Mechanical Information

Property (unit)	Test Method	T-Tube 1000
Tensile Strength (N/mm)	ASTM D412	8
Elongation (%)	ASTM D412	10
Breakdown Voltage (Volts AC)	ASTM D149	>6,000
Dielectric Constant @1MHz	ASTM D150	4.61
Outgassing CVCM (%)	ASTM E595	0.04

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