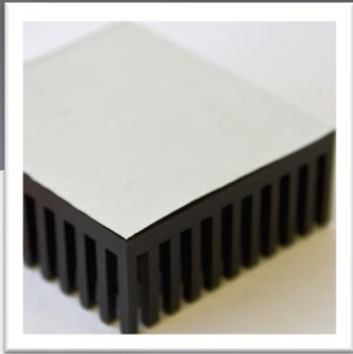


UniPhase 7500

Phase Change Interface Material



UniPhase 7500 is a high-performance phase changing TIM. With a thermal conductivity of 7.5 W/mK, **UniPhase 7500** has enhanced the cooling of the most Demanding thermal applications. Phase change occurring at 60°C +/- 10 °C. In combination with device mounting pressure and phase change flow, **UniPhase 7500** expels air voids at the interface helping to reduce thermal resistance. **UniPhase 7500** is supplied in die-cut preforms to suit a wide variety of electronic applications such as DC/DC power converters and is typically between any heat dissipating electrically isolated component and heatsink.

Features

- Thermal Conductivity of 7.5W/mk
- Non silicone material with naturally tacky surface
- Easy reworkability

Availability and Storage

- Supplied in custom die-cut preforms and shapes
- Available in a variety of thicknesses to suit individual application requirements

Benefits

- Non silicone phase change TIM that provides naturally tacky surface.
- Fully characterized long term reliability
- Meets RoHs and REACH requirements
- Stable in its application

Recommended Uses

- Typically used to thermally connect an electrically isolated heat generating component to a heatsink
- Within an application to replace thermal grease
- Power supplies and power modules

Physical Properties (for a typical thickness)

Property (unit)	Test Method	UniPhase 7500
Colour	Visual	Grey
Thickness – (mm)	Visual	0.125, 0.20, 0.25, 0.4
Operating Temperature Range (°C)	In House	-40 - 125
Thermal Impedance @ 10psi & 70° (°C-cm²/W)	ASTM D5470	0.10
Thermal Impedance @ 50psi & 70° (°C-cm²/W)	ASTM D5470	0.06

Mechanical Properties:

Property (unit)	Test Method	UniPhase 7500
Phase Change Temperature (°C)	-	50 - 70
Thermal Conductivity (W/m-k)	Hot Disk	7.5
Volume Resistivity (Ω-cm)	ASTM D991	5.4x10 ¹⁵
UL	UL94	V0
Dielectric constant(@1MHz)	ASTM D150	30



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This material is often used in these industries:



Industrial



Computing



Military



PSU