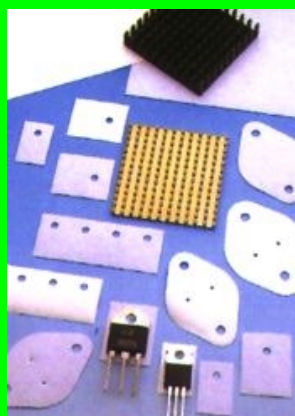


Infratron Kool Pad KTP Thermal interface

KTP

	Material	Thermal Impedance °C/W (Area:TO3)	Breakdown Voltage (V) 50Hz RMS	Temperature range
Property	Silicone / Glass fibre	From 0.07	Thickness dependant	-40°C to +180°C
Test Method	-	ASTM D5470	ASTM D149	-

	Description <p>KOOL-PAD KTP is an advanced thermally conductive, conformable, interface material. It has been designed to be used between component and heatsink to eliminate air gaps and improve the efficiency of heat transfer.</p> <p>KTP uses a high proportion of Boron Nitride to produce a thermal performance up to 80% better than standard interface materials, such as Infratrons K177. The silicone nature of the product also gives a voltage isolation up to 4000V (50Hz rms).</p> <p>Using KTP materials as a heatsink interface will significantly reduce the operating temperature of heat generating components, when compared to traditional interface materials. This will improve the reliability and life of these components and subsequently reduce the dangers of system malfunction.</p>
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Ordering information	Key performance Properties
<p>Standard sheet sizes are 200mm x 200mm each.</p> <p>Non-Adhesive KTP XXX- NA- 20x20</p> <p>Adhesive backed KTP XXX- AC-20x20</p> <p>Where XXX represents the thickness of the material. See below.</p>	<ul style="list-style-type: none"> Extremely low thermal resistance Easily cut at room temperature into most configurations using steel rule dies or sharp blades. Low tooling costs for custom profiles Remains resistant to cleaning agents , and does not support organic growth No known deterioration over time. Fills air gaps between components up to 8% of the pads thickness

Technical Information	Property						
Part prefix code	KTP127	KTP254	KTP510	KTP101	KTP152	KTP304	KTP508
Thickness (mm) +/- 0.02	0.127	0.254	0.508	1.01	1.52	3.04	5.08
Thermal Conductivity Wm ⁻¹ K ⁻¹ MIL-I-49456A	6.6	6	7	8	8	8	8
Thermal resistance T0-3	0.07	0.11	0.15	0.24	0.35	0.65	1.10
Thermal resistance per cm ²	0.45	0.71	0.97	1.54	2.25	4.2	7.1
Hardness (Shore hardness)	30	30	30	25	25	20	20
Colour	Orange	Red	Blue	Grey	Grey	Grey	Grey
Datasheet Issue	06	-	-	-	-	-	-

For further information on this or any other thermal material call our help line on ++49-(0)89-15 81 26-0 and visit our website at www.infratron.de

[in_KTP.pdf](#)