Infratron Kool Pad

Koolform

KF	Material	Thermal Impedance °C/W (Area:TO3)	Breakdown Voltage (V) 50Hz RMS	Temperature range
Property	Low modulus Silicone	1.0	5KV+	-60°C to +200°C
Test Method	-	ASTM D5470	ASTM D149	-

Description

Kool-Form (KF) is a highly conformable thermally conductive Silicone that has been specifically designed to provide an excellent thermal interface between hot electronic components and their adjoining Heatsinks or mounting chassis.

Manufactured from low modulus silicone polymer and loaded with thermally conductive particles, Kool-Form actually moulds around the surface of a component significantly reducing the risk of thermally damaging air pockets or gaps existing between the component and heatsink by filling any irregularities with a thermally conductive medium. The compliant nature of Kool-Form allows it to be used in numerous applications particularly where a number of devices of uneven heights are being cooled by the same heatsink surface

Ordering information

Standard sheet sizes are 225mm x 225mm each.

Non-Adhesive
KF-XXNA-20x40
Where XX represents the thickness of the material. See below.

Key performance Properties

- Extremely low modulus allows components to 'bed' into pad, for excellent thermal contact
- 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 50% of the pads thickness
- Can be used to overlay a series of components with differing heights, and still maintain a constant contact.

Technical Information	KF02	KF05	KF08	KF10	KF15	KF25	KF30	KF40	KF50
% deflection @ 10psi	6	6	6	6	11	15	15	15	18
Thickness (mm) +/- 0.02	0.25	0.50	0.75	1.00	1.80	2.50	3.30	4.00	5.00
Thermal resistance T0-3 (°C/W)	0.33	0.58	0.8	1.0	1.5	2.1	2.4	2.7	3.5
Thermal resistance **per cm²**	2.0	3.6	4.9	6.1	9.2	12.9	14.7	16.6	21.5
Thermal conductivity (W/mK)	1.5	1.5	1.5	1.5	2	2	2.2	2.2	2.2
Colour	Light Grey	Light Grey	Light Grey	Light Grey	Light Grey	Light Grey	Light Grey	Light Grey	Light Grey
Breakdown voltage V	5K+	5K+	5K+	5K+	5K+	5K+	5K+	5K+	5K+
Datasheet Issue	03								

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

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