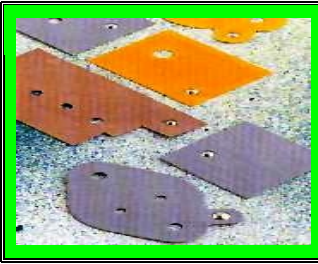
Infratron Kool Pad

Kool Pad shields

KPS	Material	Thermal Impedance °C/W (Area:TO3)	Breakdown Voltage (V) 50Hz RMS	Temperature Range
Property	Silicone / Copper	From 0.76	2KV	-60°C to +180°C
Test Method	-	ASTM D5470	ASTM D149	-



Description

KOOL-PADS SHIELDING INSULATORS are designed for use under high frequency switching transistors and other semiconductor modules and packages where undesirable electromagnetic interference is being generated.

Constructed from two layers of Kool-Pads thermally conductive material and one layer of copper foil, the lamination is bonded and provided with a pre-tinned solder point for connection to negative H.T. Thermally conductive compound is not normally required. Constructed from flame retardant materials.

Collector-heatsink capacitive coupling when using normal insulators can create unwanted radio frequency currents.

By connecting the kool pad shield solder point to emitter (see diagram) most interfering currents remain in the primary circuit and are prevented from flowing into the mains via the heatsink earth line.

Key performance Properties

- Reduce interfering currents from components
- High voltage isolation
- Solder tabs applied as standard
- No known deterioration over time.
- Fully customisable.
- Copper foil inset by 2mm for creepage clearance.

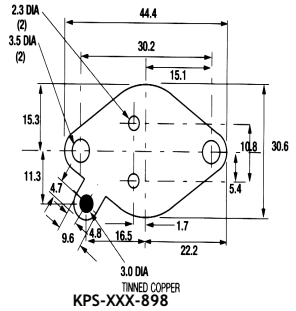
Ordering information

From the diagrams choose the appropriate profile, and from the table choose the appropriate material. Kool pad shields can be produced to almost any customer specification.

Example:-

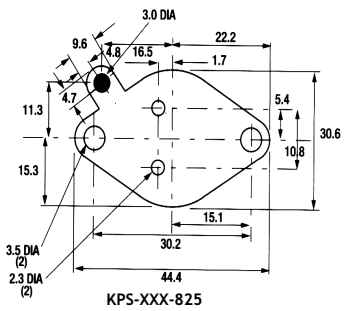
KPS-071-898

TO-3



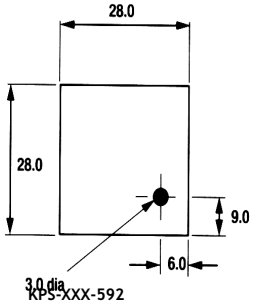
KPS-XXX-898

TO-3



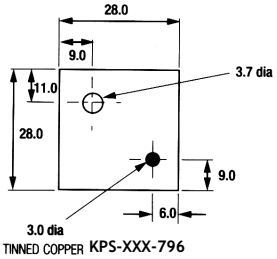
KPS-XXX-825

TO-220 CLIP MOUNT



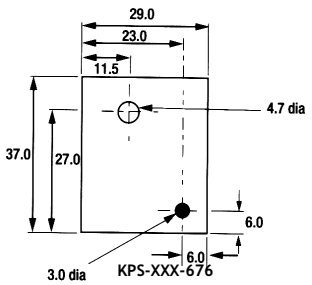
KPS-XXX-592

TO-220

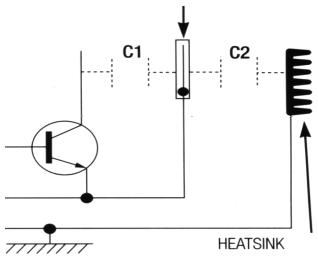


KPS-XXX-796

TO-3P



KPS-XXX-676



Technical Information	KPS071	KPS228	KPS230	Property	KPS071	KPS228	KPS230
Part prefix code	KPS071	KPS228	KPS230	Thermal resistance °C/W	0.76	1.10	0.8
Insulating material	KK071	K228	K230	Capacitance 1000Hz Pf	230	70	60
Copper Thickness µm	35	35	35	Dielectric Constant 1000Hz	2.9	2.7	2.2
Total shield thickness mm	0.18	0.49	0.49	Temperature range °C	-60°C to +180°C		
Breakdown Voltage 50Hz RMS	2000	2000	2000	Colour	Yellow	Grey	Red
Datasheet issue	5	-	-	Mounting Pressure	10-15Kg/cm^2		

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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