

A range of economical, commercial grade silicone rubber thermal interface materials providing good electrical isolation, reinforced with glass fibre and flame retardant to UL94V-0. Supplied in sheets of 300 x 300mm or pre-cut pads. The range also includes thermal sleeves and hoods, which can be placed directly onto the device. Colour - Grey. A selection of clamps completes the offering.

THERMAL SHEETS/PADS

Specification
 Thermal Conductivity - 1.1W/m-K
 Voltage Breakdown - 4000Vrms
 Thickness - 0.3 - 0.75mm
 Colour - Grey



300 x 300mm Sheet

Non-adhesive
 Adhesive coating

anglia
 Order Code
TP-NA-IS-300X300
TP-AC-IS-300X300



TO220 (Clip-mount, no hole)

Non-adhesive
 Adhesive coating

anglia
 Order Code
TP-NA-IS-TO220-CM
TP-AC-IS-TO220-CM



TO220

Non-adhesive
 Adhesive coating

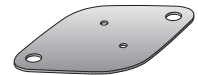
anglia
 Order Code
TP-NA-IS-TO220
TP-AC-IS-TO220



TO3P/TO247

Non-adhesive
 Adhesive coating

anglia
 Order Code
TP-NA-IS-TO3P/247
TP-AC-IS-TO3P/247

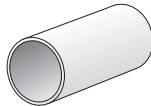


TO3

Non-adhesive

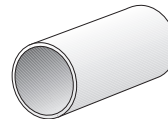
anglia
 Order Code
TP-NA-IS-TO3

THERMAL SLEEVES



TO220

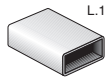
anglia
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TS-NA-IS-TO220



TO3P/TO247

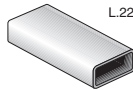
anglia
 Order Code
TS-NA-IS-TO3P/247

THERMAL HOODS



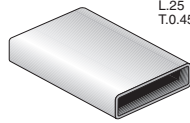
TO220

anglia
 Order Code
TH-TO220-S-45



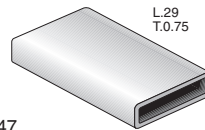
TO220

anglia
 Order Code
TH-TO220-L-45



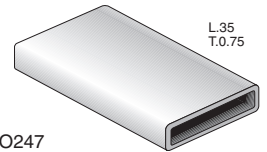
TO3P/TO247

anglia
 Order Code
TH-TO3P/247-S-45



TO3P/TO247

anglia
 Order Code
TH-TO3P/247-S-75

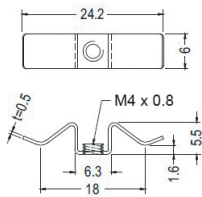


TO3P/TO247

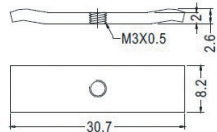
anglia
 Order Code
TH-TO3P/247-L-75

CLAMPS

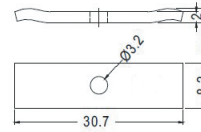
Metal clips designed to clamp the device in conjunction with the above thermal interface products.



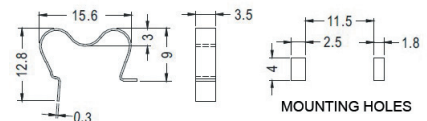
anglia
 Order Code
CLAMP-01



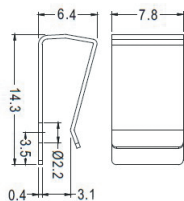
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 Order Code
CLAMP-02



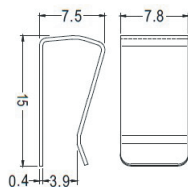
anglia
 Order Code
CLAMP-03



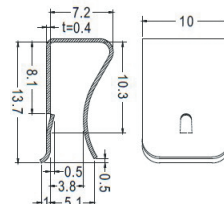
anglia
 Order Code
CLAMP-07



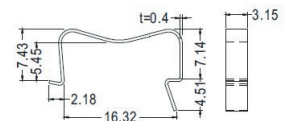
anglia
 Order Code
CLAMP-04



anglia
 Order Code
CLAMP-05



anglia
 Order Code
CLAMP-06



anglia
 Order Code
CLAMP-08

THERMAL INTERFACE MATERIALS

KOOL-PADS® KA150-2AC. Provides an efficient method of mounting heatsinks on to devices such as CPUs, DIL/SMT packages and other similar devices requiring effective transfer of generated heat. Highly conductive aluminium foil with adhesive applied to both sides negates the need for clips or any other form of mechanical fixing in applications where electrical isolation is **not** required. Supplied in 300 x 300mm sheets.

Specification

Thermal Resistance - 0.49°C/W
 Thickness - 0.16mm
 Colour - Grey



300 x 300mm Sheet

Manf. Part No.

KA150-2AC-30X30

anglia
 Order Code
471953

KOOL-PADS® K177. Silicone rubber compound coated on to a layer of woven glass fibre, providing a strong and flexible insulator which will not crack, age or become contaminated. Flame retardant to UL94V-0. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.45°C/W
 Thermal Conductivity - 0.79W/m-K
 Voltage Breakdown - 3500Vrms
 Thickness - 0.177mm
 Colour - Grey



300 x 300mm Sheet



TO220

Non-adhesive
 Manf. Part No. K177-NA-30X30
anglia
 Order Code **471938**

Non-adhesive
 Adhesive coating
 Non-adhesive,
 clip mount (no hole)

Manf. Part No.

K177-NA-353
 K177-AC-353
 K177-NA-819

anglia
 Order Code
471935
471939
471949



TO3P/TO247

Non-adhesive
 Adhesive coating
 Non-adhesive,
 clip mount (no hole)

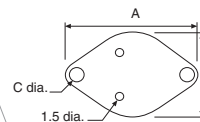
Manf. Part No.
 K177-NA-403
 K177-AC-403
 K177-NA-706
anglia
 Order Code
471936
471940
471950



TO3

Non-adhesive
 Non-adhesive
 Adhesive coating

Size (mm)
 A B C
 40.5 28 3.9
 42 29 3.8
 42 29 3.8



Manf. Part No.
 K177-NA-032
 K177-NA-065
 K177-AC-065
anglia
 Order Code
471937A
471937
471941

KOOL-PADS® K200. Cost-effective, low thermal resistance insulating material. Coated glass fibre loaded with silicone compound. Flame retardant to UL94V-0. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.28°C/W
 Thermal Conductivity - 1.3W/m-K
 Voltage Breakdown - 1000Vrms
 Thickness - 0.2mm
 Colour - Light green



300 x 300mm Sheet



TO220

Non-adhesive
 Manf. Part No. K200-NA-30X30
anglia
 Order Code **471945**

Non-adhesive
 Adhesive coating
 Non-adhesive,
 clip mount (no hole)

Manf. Part No.

K200-NA-353
 K200-AC-353
 K200-NA-819

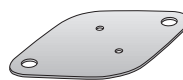
anglia
 Order Code
471942
471946
471952



TO3P/TO247

Non-adhesive
 Adhesive coating
 Non-adhesive,
 clip mount (no hole)

Manf. Part No.
 K200-NA-403
 K200-AC-403
 K200-NA-706
anglia
 Order Code
471943
471947
471951



TO3

Non-adhesive
 Adhesive coating

Manf. Part No.
 K200-NA-065
 K200-AC-065


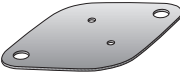


anglia
 Order Code
471944
471948

FOR SUITABLE HEATSINKS SEE PAGES 412-423

THERMAL INTERFACE MATERIALS *continued*

KOOL-PADS® CM20. 98% graphite offering a dry alternative to thermal compounds. Designed for high power applications where electrical isolation is **not** required. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification
 Thermal Resistance - 0.07°C/W
 Thermal Conductivity - 3.85W/m-K
 Thickness - 0.2mm
 Colour - Dark metallic

	TO220	Manf. Part No.	anglia Order Code
300 x 300mm Sheet	Non-adhesive, clip mount (no hole)	CM20-NA-819	471961
Non-adhesive			
Manf. Part No.	anglia Order Code		
CM20-NA-30X30	471957		
	TO3	Manf. Part No.	anglia Order Code
Non-adhesive Adhesive coating		CM20-NA-213 CM20-AC-213	471956 471960
	TO3P/TO247	Manf. Part No.	anglia Order Code
Non-adhesive Adhesive coating		CM20-NA-403 CM20-AC-403	471955 471959
Non-adhesive, clip mount (no hole)		CM20-NA-706	471962
	TO202	Manf. Part No.	anglia Order Code
Non-adhesive Adhesive coating		CM20-NA-314 CM20-AC-314	471954 471958

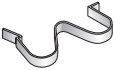


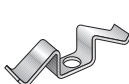

CM20 RANGE DISCONTINUED
 Available only while stocks last

THERMAFLEX® tube is designed to be slipped over the device before clip application. Gives good thermal performance and high levels of electrical isolation. Supplied specifically for the packages shown below.

Specification
 Thermal Resistance - 0.92°C/W
 Thermal Conductivity - 1.6W/m-K
 Voltage Breakdown - 7000Vrms
 Colour - Grey

	TO220	Manf. Part No.	anglia Order Code
THER-T-SMALL			471969
	TO3P/TO247	Manf. Part No.	anglia Order Code
THER-T-LARGE			471970

CLIPS

	Suitability	Manf. Part No.	anglia Order Code
	Suitable for use with panels up to 1.2mm and pads up to 0.2mm thickness. Max. force = 5.5kg. Zinc plated with clear passivated finish.	TO220 TSC802	471963
	Nylon coated gull wing clip for retaining two devices onto any panel or pad thickness. Max. force = 7.5kg/device. Gives up to 3500V isolation from transistor tab. Centre screw mounting.	TO220 TSC607-NY	471965
	Gull wing clip designed for use with KOOL-PAD® K177/200-NA-819 on any panel. Max. force = 12kg. Zinc plated with clear passivated finish. Max. isolation 1000V from transistor tab. Screw mounting.	TO220 TSC209-ZP	471967
	Industry standard clip for retaining TO220 or similar devices to custom heatsinks.	TO220 CLP-101	CLP-101
	Suitable for use with panels up to 2mm and pads up to 0.2mm thickness. Max. force = 10kg. Zinc plated with clear passivated finish.	TO3P/TO247 TSC903	471964
	Nylon coated gull wing clip for retaining two devices onto any panel or pad thickness. Max. force = 11kg/device. Gives up to 3500V isolation from transistor tab. Centre screw mounting.	TO3P/TO247 TSC506-NY	471966
	Gull wing clip designed for use with KOOL-PAD® K177/200-NA-706 on any panel. Max. force = 15kg. Zinc plated with clear passivated finish. Max. isolation 1000V from transistor tab. Screw mounting.	TO3P/TO247 TSC405-ZP	471968



INSULATOR KITS

Comprise of a silicone insulating washer and bush(es).

Suitability	Manf. Part No.	anglia Order Code
TO220 (fixing hole)†	K177-353BQ2840	471930
TO3P only	K177-235BQ35	471933
TO3P/TO247	K177-872BQ35	471934
TO3†	K177-065BQ35	471931
TO126	K177-679BQ57	471932

† CEL version also available (see page 425).
 Please specify preferred supplier when ordering.

FOR SUITABLE HEATSINKS SEE PAGES 412-423

Bergquist Thermal Interface Materials
 shown overleaf > > >

THERMAL INTERFACE MATERIALS

HI-FLOW™ 105. "Phase change" polymer coated aluminium designed to replace grease as a thermal interface. For use in applications where electrical isolation is **not** required. At 65°C, Hi-Flow changes from solid and flows, ensuring total surface contact. Supplied with adhesive coating, in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.05°C/W
 Thermal Conductivity - 0.9W/m-K
 Colour - Black



100 x 100mm Sheet

Manf. Part No.	anglia Order Code
105AC-100X100	471900



TO220

Manf. Part No.	anglia Order Code
105AC-54	471901



TO3P/TO247

Manf. Part No.	anglia Order Code
105AC-104	471902

HI-FLOW™ 625. Film reinforced "phase change" material. At 65°C, the thermally conductive compound changes from solid and flows, ensuring total surface contact. For use in applications where good electrical isolation is required. Supplied with adhesive coating, in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.25°C/W
 Thermal Conductivity - 0.8W/m-K
 Voltage Breakdown - 4000Vrms
 Colour - Light green



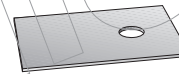
100 x 100mm Sheet

Manf. Part No.	anglia Order Code
625AC-100X100	471903



TO220

Manf. Part No.	anglia Order Code
625AC-54	471904



TO3P/TO247

Manf. Part No.	anglia Order Code
625AC-104	471905

Sil-Pad 900-S®. A material with high thermal conductivity, high breakdown voltage, low mounting pressure and reduced capacitive coupling. Supplied pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.2°C/W
 Thermal Conductivity - 1.6W/m-K
 Voltage Breakdown - 5500Vrms
 Thickness - 0.23mm
 Colour - Salmon



TO220

Fixing hole (illus.)	SP900S-54
Clip mount (no hole)	SP900S-43

Manf. Part No.	anglia Order Code
	471907
	471906

FOR SUITABLE HEATSINKS SEE PAGES 412-423

THERMAL INTERFACE MATERIALS *continued*

Sil-Pad K-6®. Silicone elastomer coated, thermally conductive medium performance insulator. Puncture resistant with a high breakdown voltage. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.3°C/W
 Thermal Conductivity - 1.1W/m-K
 Voltage Breakdown - 6000Vrms
 Thickness - 0.15mm
 Colour - Blue/green



300 x 300mm Sheet

Manf. Part No. **anglia** Order Code
 K6-300X300 **471971**



TO220

Manf. Part No. **anglia** Order Code
 K6-54 **471972**



TO3P/TO247

Manf. Part No. **anglia** Order Code
 K6-104 **471973**

Sil-Pad K-10®. High performance insulator. Special film with filled silicone rubber construction giving excellent thermal characteristics and a high breakdown voltage. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.2°C/W
 Thermal Conductivity - 1.3W/m-K
 Voltage Breakdown - 6000Vrms
 Thickness - 0.15mm
 Colour - Beige



300 x 300mm Sheet

Manf. Part No. **anglia** Order Code
 K10-300X300 **471974**



TO220

Manf. Part No. **anglia** Order Code
 K10-54 **471975**



TO3P/TO247

Manf. Part No. **anglia** Order Code
 K10-104 **471976**

Sil-Pad 2000®. High performance/high reliability insulator designed for demanding applications such as military, aerospace and high integrity commercial requirements. Specially filled silicone elastomer maximises thermal and dielectric performance and is capable of meeting or exceeding the requirements of high reliability packaging applications. Conforms to applicable military standards. Supplied in sheets or pre-cut specifically for the packages shown below.

Specification

Thermal Resistance - 0.2°C/W
 Thermal Conductivity - 3.5W/m-K
 Voltage Breakdown - 4000Vrms
 Thickness - 0.38mm
 Colour - White



150 x 150mm Sheet

Manf. Part No. **anglia** Order Code
 SP2000-150x150 **471977**



TO220

Manf. Part No. **anglia** Order Code
 2015-54 **471978**



TO3P/TO247

Manf. Part No. **anglia** Order Code
 2015-104 **471979**

FOR SUITABLE HEATSINKS SEE PAGES 412-423

Bergquist Thermal Interface Materials
continued overleaf > > >

THERMAL INTERFACE MATERIALS *continued*

Q-Pad 3®. Elastomer coated, glass fibre reinforced interface designed to conform to the clamping surface textures, creating an air free environment. The material offers good thermal characteristics in applications where electrical isolation is **not** required. Supplied with adhesive coating, in sheets or pre-cut specifically for the packages shown below.

Specification
 Thermal Resistance - 0.1°C/W
 Thermal Conductivity - 1.6W/m-K
 Thickness - 0.15mm
 Colour - Black



300 x 300mm Sheet

Manf. Part No.	anglia Order Code
Q3AC-300X300	471980



TO220

Size 18 x 12.7mm
 Size 22 x 18.8mm

Manf. Part No.	anglia Order Code
Q3AC-35 Q3AC-90	471982 471981



TO3

Manf. Part No.	anglia Order Code
Q3AC-05	471983

Gap Pad V0™. Highly conformable interface manufactured from polymer on a glass fibre carrier. Available in a choice of thicknesses, the interface may be used in a wide variety of applications where surface textures vary, resulting in uneven spaces between mating areas. Supplied in sheets.

Specification
 Thermal Conductivity - 0.8W/m-K
 Voltage Breakdown - 6000Vrms
 Colour - Yellow/pink



100 x 100mm Sheet

Thickness	Thermal Resistance	Manf. Part No.	anglia Order Code
1.5mm	3.0°C/W	GPD-1.5-100X100	471984
2.0mm	4.0°C/W	GPD-2.0-100X100	471985
3.2mm	6.2°C/W	GPD-3.2-100X100	471986

Gap Pad V0 Soft™. Recommended for low stress applications such as an interface where one side is in contact with a leaded device. Manufactured from polymer on a glass fibre carrier, the material is highly conformable in situations where uneven spaces between mating areas exist. Supplied in sheets and available in a choice of thicknesses.

Specification
 Thermal Conductivity - 0.8W/m-K
 Voltage Breakdown - 6000Vrms
 Colour - Mauve/pink



100 x 100mm Sheet

Thickness	Thermal Resistance	Manf. Part No.	anglia Order Code
1.5mm	3.0°C/W	GPS-1.5-100X100	471987
3.2mm	6.2°C/W	GPS-3.2-100X100	471988
4.0mm	8.0°C/W	GPS-4.0-100X100	471989

Gap Pad™ 1500. High performance conformable polymer on a glass fibre carrier. Available in a choice of thicknesses, the interface finish gives good compliance to adjacent surfaces and may be used in a wide variety of applications where mating areas are uneven.

Specification
 Thermal Conductivity - 1.5W/m-K
 Voltage Breakdown - 6000Vrms
 Colour - Pink



100 x 100mm Sheet

Thickness	Thermal Resistance	Manf. Part No.	anglia Order Code
1.5mm	1.6°C/W	GP1K5-1.5-100X100	471989
3.2mm	3.3°C/W	GP1K5-3.2-100X100	471990
4.0mm	4.2°C/W	GP1K5-4.0-100X100	471991

Gap Pad™ 2000. High performance, highly conductive conformable polymer on a glass fibre carrier with excellent compliance to adjacent surfaces. Choice of thicknesses make it suitable in a wide range of applications where mating areas are uneven.

Specification
 Thermal Conductivity - 2.0W/m-K
 Voltage Breakdown - 5000Vrms
 Colour - Grey



100 x 100mm Sheet

Thickness	Thermal Resistance	Manf. Part No.	anglia Order Code
1.5mm	1.1°C/W	GP2K0-1.5-100X100	471992
3.2mm	2.5°C/W	GP2K0-3.2-100X100	471993

FOR SUITABLE HEATSINKS SEE PAGES 412-423