

High Performance, High Reliability Insulator BERGQUIST Sil-Pad 2000®



- Ultimate performance and reliability
- 0.2°C/W thermal resistance
- Electrically isolating to 4kV (min).
- Clean, grease-free and flexible
- -60°C to +200°C operating temperature
- Boron nitride loaded silicon elastomer
- Pre-cut for transistors, or uncut sheet
- 0.38mm thickness

Sil-Pad 2000 is a high performance thermallyconductive insulator designed for demanding-military / aerospace and commercial applications.Sil-Pad 2000complies with MIL-M-38527/8A, MIL-M-38527C and MIL-I-49456.

Mftrs. List No. 2015-54 =681-118 2015-104 =681-120 SP2000 SHBBT =681-131

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Package	Order Code	5+	+	+
TO-220	681-118	58.00	--	--
TO-3P	681-120	95.00	--	--
		1+	5+	10+
150mm x 150mm sheet	681-131	5,934.00	5,394.00	4,945.00

Transistor Insulating Bushes

Pack Quantity = 10	Order Code	1+	25+	100+	1K+
TO-220	936-649	77.00	55.00	43.00	33.00
TO-3	936-637	77.00	55.00	43.00	33.00

Grease Replacement Thermal Interface BERGQUIST Q-Pad 3®



- Graphite loaded polymer elastomer
- **Electrically conductive** - non-insulating
- Clean, grease-free and easy to assemble
- 1.3°C/W thermal resistance
- Pre-cut for transistors, or uncut sheet
- 0.13mm thickness

Bergquist Q-Pad 3 eliminates problemsassociated with thermal grease such as contaminationof electronic assemblies and reflowsolder baths. Q-Pad 3 may be installed priorto soldering and cleaning, without worry. Whencamped between two surfaces, the elastomer-conforms to surface textures thereby creatingand air free interface between heat generating-components and heat sinks.

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Type	Mftrs. List No.	Order Code	10+	+	+
TO-220	Q3AC-35	557-780	7.00	--	--
			1+	5+	10+
102mm x 102mm sheet		878-3659	370.00	295.00	242.00
300mm x 300mm sheet (adhesive backed)		681-465	1,852.00	1,693.00	1,610.00

Thermally Conductive, Pressure Sensitive Adhesive Tape BERGQUIST Bond-Ply 100



- Thermal impedance: 0.86°C - in²/W (@ 100 psi)
- High bond strength to a variety of surfaces
- Double-sided pressure sensitive adhesive tape
- High performance, thermally conductive acrylic adhesive
- Can be used instead of heat cure adhesive, screw mounting or clip mounting

Typical applications:

- Mount heat sink onto BGA graphicprocessor or drive processor
- Mount heat spreader onto powerconverter PCB or onto motor control PCB



Thermal Conductivity W/m-K	Dielectric Breakdown Voltage V-ac	Tensile Strength (psi) / (MPa)	Thickness	Volume Resistivity Ω-m
0.8	3000	6	0.127mm	10 ¹¹

387159/405607

Order Code	1+	5+	10+
150mm x 150mm sheet 878-3705	990.00	790.00	646.00
300mm x 300mm sheet 878-3713	3,381.00	2,696.00	2,205.00
Supplied in Packs of 10		Price Per Pack	25+
25mm x 25mm sheet 878-3721	336.00	268.00	220.00

Gap Pad™ Conformable Air Gap Fillers BERGQUIST



Gap Pad provides an effective thermal interface between heat sinks and electronic devices where uneven surface topography, air gaps and rough surface textures are present.

- Eliminates air gaps to reduce thermal resistance
- Highly conformable to reduce interfacial resistance
- Low-stress vibration dampening
- Compatible with automated dispensing equipment
- Available in different grades, of various thickness

VO: Standard applications

VO Soft: Low stress applications, fragile components

VO Ultra-Soft: Highly-conformable, gel-like modulus

2000-S40: High thermal performance, highly-conformable, glass reinforced

2500-S80: High thermal performance, highly-conformable, non-reinforced, inherently tacky

3000-S30: Ultra-high thermal performance, highly-conformable, glass reinforced

Material	Thermal Conductivity W/m-K	Dielectric Breakdown Voltage KV-ac	Dielectric Constant	Volume Resistivity Ω-m	Adhesive Backed ?
Gap Pad VO	0.8	6	5.5	1x10 ¹¹	y
Gap Pad VO Soft	0.8	6	5.5	1x10 ¹¹	n
Gap Pad VOUS	1	6	5.5	1x10 ¹¹	n
Gap Pad 2000 S40	2.0	2.5	6.0	4.2 x 10 ¹¹	n
Gap Pad 2500 S80	2.7	6	6.8	1x10 ¹¹	n
Gap Pad 3000 S30	3.0	2.5	6.0	8.5 ¹⁰	n

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100mm x 100mm Sheet Thickness	Order Code	1+	5+	10+
Gap Pad VO				
1.5mm	681-143	1,569.00	1,396.00	1,304.00
2mm	936-728	1,843.00	1,686.00	1,620.00
3.2mm	681-155	2,687.00	2,442.00	2,239.00
4mm	936-730	3,469.00	3,034.00	2,676.00
Gap Pad VO Soft				
1.5mm	168-830	1,590.00	1,420.00	1,292.00
3.2mm	168-841	2,906.00	2,413.00	2,154.00
Gap Pad VO Ultra-Soft				
1.0mm	NEW 878-3411	1,474.00	1,435.00	1,284.00
2mm	NEW 878-3438	1,954.00	1,902.00	1,703.00
3.175mm	NEW 878-3446	3,306.00	3,219.00	2,880.00
5mm	NEW 878-3454	4,728.00	4,604.00	4,120.00
Gap Pad 2000 S40				
1.0mm	NEW 878-3462	1,687.00	1,594.00	1,514.00
2.0mm	NEW 878-3470	2,372.00	2,240.00	2,127.00
3.175mm	NEW 878-3489	3,186.00	3,007.00	2,857.00
Gap Pad 2500 S80				
1mm	NEW 878-3497	2,066.00	1,951.00	1,853.00
2mm	NEW 878-3500	3,208.00	3,029.00	2,877.00
3.175mm	NEW 878-3519	4,255.00	4,016.00	3,817.00
Gap Pad 3000 S30				
1mm	NEW 878-3527	3,463.00	3,268.00	3,105.00
2mm	NEW 878-3535	4,619.00	4,360.00	4,143.00
3.175mm	NEW 878-3543	5,739.00	5,419.00	5,147.00

Transistor Insulating Tubes



TO-220 L=25, Dia.=10
TO-218/247/3P L=30, Dia.=13

A simple and safe method of isolating power devices. The transistor is inserted into the flexible tube, which is then clipped on to a suitable heatsink. Electrical isolation is greatly improved compared to traditional screw mounting techniques. **UL** recognised.

Thickness	0.6 max.	Thermal conductivity	0.7 Wm ⁻¹ K ⁻¹
Breakdown voltage	8000V	Elongation	115%
Thermal resistance	0.92°C/W	Temperature range	-55°C to +180°C

FOR SUITABLE TRANSISTOR CLIPS SEE ORDER CODES 557-729 & 557-730

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Package	Mftrs. List No.	Order Code	10+	250+	1K+	10K+
TO-220	THER-T-SMALL	547-566	16.00	--	--	--
TO-218/TO-247						
TO-3P	THER-T-LARGE	547-578	19.00	17.00	15.00	11.00