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Interface Materials

- Insulators
- Aluminum Oxide Ceramic
- Insulating Covers
- Bushings
- Mica
- Thermalsil
- Beryllium Oxide Ceramic
- Hard Anodized Aluminum

Thermalsil III - Insulating Pads & Films

RoHS Compliant

Thermally Conductive Silicone Rubber Insulators

Composed of a silicone elastomer binder with a thermally conductive filler, Thermalsil III's formula has been fully optimized for thermal conductivity. The electrically insulating pads are reinforced with finely woven glass cloth to resist tearing due to burrs and to enhance thermal resistance.

Thermalsil III eliminates the need for grease application and conforms to mounting surfaces under clamping pressure for optimum heat conduction.

AVAILABLE SIZES:

Thermalsil III is available in standard sizes for TO-3, TO-218 and TO-220 devices as well as in washer and 328ft bulk rolls. The Bulk rolls are offered in three different widths with and without adhesive backing

Any configuration is also available with adhesive backing. Order by adding "AC" after the part number. For example: 53-03-2AC

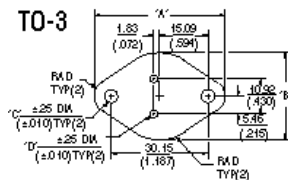
Bulk Thermalsil III

Thermalsil III is also available in three widths, with and without adhesive coated backing (AC). Thermalsil III is 0.152mm (0.006") thick.

Part No.*	RoHS	PCN	Width
5300 1.500G	RoHS Compliant	N/A	38.10mm (1.500")
5300AC 1.500G	RoHS Compliant		38.10mm (1.500")
5300 2.875G	RoHS Compliant	N/A	76.20mm (3.000")
5300AC 2.875G	RoHS Compliant	N/A	76.20mm (3.000")
5300 6.000G	RoHS Compliant	N/A	152.40mm (6.000")
5300AC 6.000G	RoHS Compliant	N/A	152.40mm (6.000")

*Available in full (328 ft.) length rolls only

Standard Thermalsil Configurations



Part Number	RoHS	PCN	A	B	C	D
53-03-2G	RoHS Compliant		42.04 (1.655)	27.00 (1.063)	3.96 (0.156)	1.57 (0.062)
53-03-11G	RoHS Compliant	N/A	41.81 (1.646)	28.58 (1.125)	3.96 (0.156)	2.36 (0.093)
53-03-12G	RoHS Compliant	N/A	41.91 (1.650)	28.96 (1.140)	3.56 (0.140)	2.36 (0.093)
			39.70	26.67	3.56	2.36

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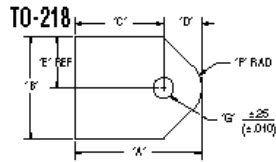
Check Distributor Stock

Enter a part number for pricing and availability.

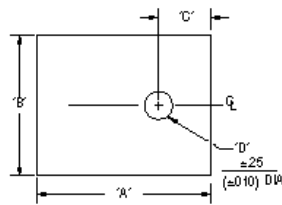
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Thermasil III - Insulating Pads & Films - heat sink interface material

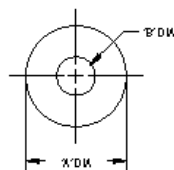
53-03-14G	RoHS  Compliant	N/A	(1.563)	(1.050)	(0.140)	(0.093)
53-03-15G	RoHS  Compliant	N/A	40.46 (1.593)	27.94 (1.100)	3.96 (0.140)	1.78 (0.070)
53-03-16G	RoHS  Compliant	N/A	43.18 (1.700)	30.15 (1.187)	3.96 (0.156)	1.60 (0.063)



Part Number	A	B	C	D	E	F	G
53-02-95G	23.24 (0.915)	18.80 (0.740)	16.26 (0.640)	6.99 (0.275)	9.40 (0.370)	5.59 (0.220)	3.66 (0.144)
53-02-103G**	23.80 (0.937)	19.05 (0.750)	16.66 (0.656)	7.14 (0.281)	9.53 (0.375)		3.18 (0.125)
53-78-3G* **	25.40 (1.000)	20.32 (0.800)					

T0-220

Part Number	RoHS	PCN	A	B	C	D
53-77-2G	RoHS  Compliant		17.50 (0.687)	14.27 (0.562)	5.54 (0.218)	3.18 (0.125)
53-77-3G	RoHS  Compliant		17.50 (0.687)	41.27 (0.562)	4.70 (0.185)	2.36 (0.093)
53-77-4G	RoHS  Compliant		19.05 (0.750)	12.70 (0.500)	4.75 (0.187)	3.73 (0.147)
53-77-5G	RoHS  Compliant	N/A	20.32 (0.800)	15.24 (0.600)	5.54 (0.218)	2.79 (0.110)
53-77-9G	RoHS  Compliant	N/A	18.42 (0.725)	13.21 (0.520)	4.32 (0.170)	2.92 (0.115)
53-77-10G	RoHS  Compliant	N/A	20.96 (0.825)	22.99 (0.905)	5.33 (0.210)	3.68 (0.145)
53-77-11G	RoHS  Compliant	N/A	26.16 (1.030)	13.21 (0.520)	3.81 (0.150)	3.30 (0.130)
53-77-13G	RoHS  Compliant	N/A	18.03 (0.710)	12.70 (0.500)	4.06 (0.160)	3.58 (0.141)
53-78-1G*	RoHS  Compliant	N/A	22.10 (0.870)	15.70 (0.620)		

WASHER

Part Number	A	B
53-02-10G	14.27 (0.562)	5.16 (0.203)
53-02-25G	20.62 (0.812)	6.73 (0.266)

* This insulator is made especially for clip-mount heat sinks, thus requiring no mounting hole.

** These insulators may also be used for TO-3P and TO-247 devices.

Thermalsil III

Property	Typical Value 25°C	Test Method
Electrical		
Dielectric Constant	2.5@50 Hz 2.5@103 Hz 2.5@106 Hz	ASTM D150
Dielectric Breakdown Voltage	26.3 x 103 volts/mm (667 volts/mil) ASTM D-149	ASTM D149
Volume Resistivity	5.7 x 10 ¹⁵ ohm-cm	ASTM D257
Dielectric Dissipation Factor	.008@50 Hz .004 @103 Hz .004 @106 Hz	ASTM D150
Physical		
Thickness	.15 + .03/- .05mm (0.006 + .001/- .002 in.)	
Color	Gray-Green	
Tensile Strength	6.1 x 10 ⁷ Pa (8786 psil)	
Hardness, Shore A	87	
Elongation	2% or less	
Thermal		
Thermal Conductivity	0.92 w/m °C	
Flame Resistance	UL 94V-0	UL card #E-58126 (S)
Service Temperature	-60°C to 180°C (-76°F to 356°F)	

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