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Thermalsil III - Insulating Pads & Films

RoHS Compliant

Thermally Conductive Silicone Rubber Insulators

News About Us

Composed of a silicone elastomer binder with a thermally conductive filler, Thermasil 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

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

AVAILABLE SIZES:

Thermalsil III is avaliable 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 avaliable with adhesive backing. Order by adding "AC" after the part number. For example: 53-03-2AC

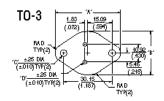
Bulk Thermalsil III

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

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Part No.*	RoHS	PCN	Width
5300 1.500G	RoHS √ Compliant	N/A	38.10mm (1.500")
5300AC 1.500G	RoHS √ Compliant	Product Change Notice	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	А	В	С	D
53-03-2G	RoHS √ Compliant	Product Change Notice	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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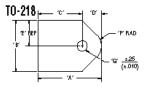
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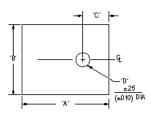
Thermalsil III - Insulating Pads & Films - heat sink interface material

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)

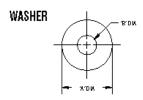


Part Number	А	В	С	D	Е	F	G
53-02-95G	23.24	18.80	16.26	6.99	9.40	5.59	3.66
	(0.915)	(0.740)	(0.640)	(0.275)	(0.370)	(0.220)	(0.144)
53-02-	23.80	19.05	16.66	7.14	9.53		3.18
103G**	(0.937)	(0.750)	(0.656)	(0.281)	(0.375)		(0.125)
53-78-3G* **	25.40 (1.000)	20.32 (0.800)					

TO-220



Part Number	RoHS	PCN	А	В	С	D
53-77-2G	RoHS √ Compliant	Product Change Notice	17.50 (0.687)	14.27 (0.562)	5.54 (0.218)	3.18 (0.125)
53-77-3G	RoHS √ Compliant	Product Change Notice	17.50 (0.687)	41.27 (0.562)	4.70 (0.185)	2.36 (0.093)
53-77-4G	RoHS √ Compliant	Product Change Notice	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)		



Part Number	А	В
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 1015 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 107 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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