



The worldwide leader in thermal management solutions

News About Us Contact Us Global Manufacturing Shop Aavid

Products

Solutions

Industries

Search Aavid

Register or Sign Into Your Account

Cart

Knowledge Center

Design Help

- Interface Materials
  - Insulators
  - Aluminum Oxide Ceramic
  - Insulating Covers
  - Bushings
  - Mica
  - Thermasil
  - Beryllium Oxide Ceramic
  - Hard Anodized Aluminum

# Thermasil III - Insulating Pads & Films

Need assistance?

Call us: 1-855-32-AAVID  
Email: [estore@aavid.com](mailto:estore@aavid.com)

[» Help Page](#)

## Check Distributor Stock

Enter a part number for pricing and availability.

- > [Request a Sample](#)
- > [Request a Quote](#)
- > [Ask an Engineer](#)

### RoHS Compliant

Thermally Conductive Silicone Rubber Insulators

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:

Thermasil 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

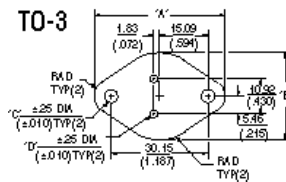
### Bulk Thermasil III

Thermasil III is also available in three widths, with and without adhesive coated backing (AC). Thermasil 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

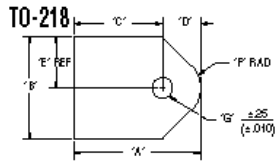
### Standard Thermasil Configurations



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

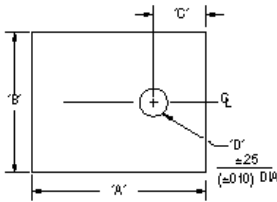
Thermasil III - Insulating Pads & Films - heat sink interface material

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)



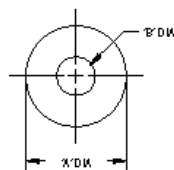
Part Number	A	B	C	D	E	F	G
53-02-95G	23.24 (0.915)	18.80 (0.740)	16.26 (0.640)	6.99 (0.275)	9.40 (0.370)	5.59 (0.220)	3.66 (0.144)
53-02-103G**	23.80 (0.937)	19.05 (0.750)	16.66 (0.656)	7.14 (0.281)	9.53 (0.375)		3.18 (0.125)
53-78-3G* **	25.40 (1.000)	20.32 (0.800)					

**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
<b>Electrical</b>		
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 <sup>15</sup> ohm-cm	ASTM D257
Dielectric Dissipation Factor	.008@50 Hz .004 @103 Hz .004 @106 Hz	ASTM D150
<b>Physical</b>		
Thickness	.15 + .03/-0.05mm (0.006 + .001/-0.002 in.)	
Color	Gray-Green	
Tensile Strength	6.1 x 10 <sup>7</sup> Pa (8786 psil)	
Hardness, Shore A	87	
Elongation	2% or less	
<b>Thermal</b>		
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)	

## Customer Assistance

[Contact Us](#)  
[Get Design Assistance](#)  
[Find a Distributor](#)  
[Find a Sales Rep](#)  
[Request a Quote](#)  
[Placing an Order](#)  
[Terms and Conditions](#)  
[Returns](#)

## Popular Products

[Fans](#)  
[Extrusions](#)  
[Board Level](#)  
[Liquid Cooling](#)  
[Heat Pipe Technology](#)  
[Heat Sink Accessories](#)  
[Interface Materials](#)

## Our Company

[News and Events](#)  
[Management Team](#)  
[Worldwide Locations](#)  
[Directions to Headquarters](#)  
[Disclaimer](#)  
[Customer Survey](#)  
[Privacy Policy](#)

## Connect with Aavid

Sign up for Aavid News & Alerts

Like / Follow / Connect



© Copyright 2015 Aavid Thermalloy, LLC.

USA: 1.855.32.AAVID Europe: 39.051.764002 Asia: 86.21.6115.2000 x 8122

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9