



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

[» 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

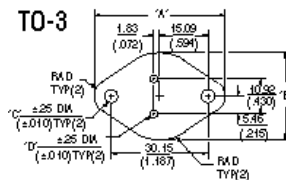
Bulk Thermasil III

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

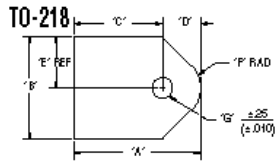
Standard Thermasil Configurations



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

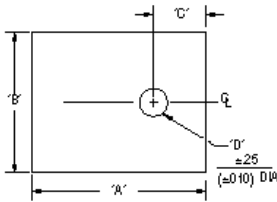
Thermasil III - Insulating Pads & Films - heat sink interface material

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)



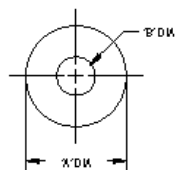
Part Number	A	B	C	D	E	F	G
53-02-95G	23.24 (0.915)	18.80 (0.740)	16.26 (0.640)	6.99 (0.275)	9.40 (0.370)	5.59 (0.220)	3.66 (0.144)
53-02-103G**	23.80 (0.937)	19.05 (0.750)	16.66 (0.656)	7.14 (0.281)	9.53 (0.375)		3.18 (0.125)
53-78-3G* **	25.40 (1.000)	20.32 (0.800)					

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
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/-0.05mm (0.006 + .001/-0.002 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)	

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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru