



LOW COST, MEDIUM PERFORMANCE INSULATOR MATERIAL

The Tgard™ 20 is designed to solve over heating issues such as lower component efficiency, premature component failures, size limitations and other performance problems for today's computer power supplies.

The Tgard™ 20 is a film-based product designed to resist cut through in screw mounting applications while providing a more consistent breakdown voltage over other insulator constructions.

The phase change coating on the film core provides an excellent mating surface for low pressure clip mounting applications.

PERFORMANCE CAPABILITIES

- High dielectric breakdown of 9,000 volts
- Film base resistance cut through
- Thermal resistance of 0.60°C-in²/ watt @ 25 psi pressure

FEATURES AND BENEFITS

- Reinforced with moderate temperature resistant film
- High voltage resistant film
- Total thermal resistance of 3.4°C/watt on TO-220
- Non-blocking for ease of use
- Designed for computer power supplies

APPLICATIONS

- Switching mode power supplies for:
 - Computers
 - Consumer electronics
- UPS units

global solutions: local support.™

Americas: +1.800.843.4556

Europe: +49.8031.2460.0

Asia: +86.755.2714.1166

CLV-customerservice@lairdtech.com
www.lairdtech.com/thermal

PROPERTY	TEST METHOD	METRIC VALUES	IMPERIAL VALUES
ELECTRICAL PROPERTIES			
Dielectric Withstand Voltage	ASTM D149	4,500 volts DC	4,500 volts DC
Dielectric Breakdown Voltage	ASTM D149	>9,000 volts AC	>9,000 volts AC
Volume Resistivity	ASTM D257	>10 ¹² ohm-cm	>10 ¹² ohm-in
Dielectric Constant @ 1 MHz	ASTM D257	1,8	1.8
MECHANICAL PROPERTIES			
Thickness		0,076 mm	0.003 inch
Substrate Film Thickness		0,051 mm	0.002 inch
Tensile Strength	ASTM D412	138 MPa	20 kpsi
Elongation	ASTM D412	130%	130%
Operating Temperature Range		-40 - 150°C	-40 - 302°F
Color		White	White
UL Flammability Rating	UL 94	V0	V0

PRESSURE, PSI (KPA)	UNITS	10 (69)	25 (172)	50 (345)	100 (689)	200 (1379)
TOTAL THERMAL RESISTANCE						
Modified ASTM D5470	°C-in ² /watt	0.65	0.60	0.60	0.60	0.60
Modified ASTM D5470	°C-cm ² /watt	4,2	3,9	3,9	3,9	3,9
TO-220	°C/watt	3.8	3.4	3.4	3.4	3.4

STANDARD THICKNESS:	STANDARD ROLL SIZE:	DIE-CUT PARTS:
3 mils (0,076 mm)	12" x 300'	Standard and custom
	(304 mm x 91 meters)	configurations available

Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

THR-DS-TGARD-20 032515

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2010 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights. A15561-00 REV B, 7/02/09

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

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9