Excellent Integrated System Limited

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<u>Laird Technologies - Engineered Thermal Solutions</u>
<u>A15295-01</u>

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of Laird Technologies - Engineered Thermal Solutions: Excellent Integrated S

Datasheet of A15295-01 - TGARD 3000,A0 12" X 18"

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Tgard™ 3000 Series Thermally Conductive Insulators



HIGH PERFORMANCE THERMAL INTERFACE PRODUCTS

Tgard™ 3000 is specifically designed to solve overheating issues such as lower component efficiency, premature component failures, size limitations and other performance problems for today's power component assemblies. The need to remove unwanted heat to ambient temperatures becomes more important as electronic systems pack more power into smaller spaces.

Tgard 3000 is a film-based product that is designed to resist cut through in screw mounting applications while providing a more consistent breakdown voltage over other insulator constructions. The soft conformal coating on the film core provides an excellent mating surface for low pressure clip mounting applications.

PERFORMANCE CAPABILITIES

- High dielectric breakdown of 6,000 volts
- · Film base resistant to cut through
- Thermal resistance of 0.55°C-in2/watt @ 50 psi pressure
- Thermal resistance of 0.37ºC-in2/watt @ 400 psi pressure

FEATURES AND BENEFITS

- Designed for switch mode power supply applications
- Reinforced with high temperature resistant film
- High voltage resistant film

APPLICATIONS

- Switching mode power supplies for:
 - Communications
 - Consumer electronics
- Industrial
- Instrumentation
- Medical
- Electrial power generators
- UPS units

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Tgard™ 3000 Series Thermally Conductive Insulators

DD ODEDTIES	TECTAL	CTUOP.	0.057	2102/44	IEC -	IAADEDIAH	VALUES	
PROPERTIES	TEST M	ETHOD	METI	RIC VALU	JES	IMPERIAL '	VALUES	
ELECTRICAL PROPERTIES								
Dielectric withstand voltage 50mm probe for 30 sec	S ASIMID149		4,500 volts DC			4,500 volts DC		
Dielectric breakdown voltag 50mm probe	e ASTM	D149	Avg >6,000 volts AC			Avg >6,000 volts AC		
Volume resistivity	ASTN	ASTN D257		² ohm-cn	n	10 ¹² ohm-in		
Dielectric constant @1Mhz	ASTN	ASTN D257		3.3			3.3	
MECHANICAL PROPERTIES								
Thickness		0.13 mm			5 mils			
Hardness	ASTM D2240		80 Shore A			80 Shore A		
Tensile strength	ASTM D412		43.4 Mpa			6.3 Kpsi		
Elongation along width or length ASTM		D412	35%		35%			
Operating temperature range			-60º to 180ºC			-76º to 356ºF		
Color			Brown			Brown		
UL flammability rating	UL	UL 94		V-0		V-0		
PRESSURE	UNITS	10 (69)	25 (172)	50 (345)	100 (689)		400 (2758)	
TOTAL THERMAL RESISTANCE								
Modified ASTM D5470	ºC-in²/watt	0.86	0.68	0.55	0.44	0.40	0.37	
Modified ASTM D5470	ºC-cm²/watt	5.55	4.39	3.55	2.83	2.58	2.39	
T0-220	ºC/watt	1.36	1.08	0.91	0.83	0.78	0.74	
 Sheet form, roll form and die-cut parts Single-side, pressure-sensitive adhesive on request Without adhesive (A0): 12 x 18" sheets, 12" x 65M, 12" x 30M roll or custom configuration With adhesive (A1): 11.75 x 18" sheets, 11.75" x 30M roll or custom configuration 								
Standard die cut parts:	Standard part sizes for TO-220, TO-247, TO-3P, TO-3PL and TO-264							
Custom die cut parts:	Stom die cut parts: Custom configurations available with standard tolerance of 0.5mm (0.020"). Ability to handle drawings in multiple file formats. (.DXF and .DWG preferred)							

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