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Bergquist Q3-0.005-00-05

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



Distributor of Bergquist: Excellent Integrated System Limited

Datasheet of Q3-0.005-00-05 - THERMAL PAD TO-3 .005" Q3

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

Q-Pad® 3

Glass-Reinforced Grease Replacement Thermal Interface

Features and Benefits

- Thermal impedance: 0.35°C-in²/W (@50 psi)
- Eliminates processing constraints typically associated with grease
- Conforms to surface textures
- · Easy handling
- May be installed prior to soldering and cleaning without worry



Bergquist Q-Pad 3 eliminates problems associated with thermal grease such as contamination of electronic assemblies and reflow solder baths. Q-Pad 3 may be installed prior to soldering and cleaning without worry. When clamped between two surfaces, the elastomer conforms to surface textures thereby creating an air-free interface between heat-generating components and heat sinks.

Fiberglass reinforcement enables Q-Pad 3 to withstand processing stresses without losing physical integrity. It also provides ease of handling during application.

TYPICAL PROPERTIES OF Q-PAD 3						
PROPERTY	IMPERIAL VALUE		METRIC VALUE		TEST METHOD	
Color	Black		Black		Visual	
Reinforcement Carrier	Fiberglass		Fiberglass		_	
Thickness (inch) / (mm)	0.005		0.127		ASTM D374	
Hardness (Shore A)	86		86		ASTM D2240	
Continuous Use Temp (°F) / (°C)	-76 to 356		-60 to 180		_	
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	Non-Insulating		Non-Insulating		ASTM D149	
Dielectric Constant (1000 Hz)	NA		NA		ASTM D150	
Volume Resistivity (Ohm-meter)	10 ²		10 ²		ASTM D257	
Flame Rating	V-O		V-O		U.L.94	
THERMAL						
Thermal Conductivity (W/m-K)	2.0		2.0		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
Press	ure (psi)	10	25	50	100	200
TO-220 Thermal Performance (°C/W)		2.26	1.99	1.76	1.53	1.30
Thermal Impedance (°C-in²/W) (1)		0.65	0.48	0.35	0.24	0.16
1) The ASTM DE 470 test fixture uses used The recorded value includes interfacial thermal recistance. These values are provided for						

 The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

Typical Applications Include:

- Between a transistor and a heat sink
- Between two large surfaces such as an L-bracket and the chassis of an assembly
- Between a heat sink and a chassis
- Under electrically isolated power modules or devices such as resistors, transformers and solid state relays

Configurations Available:

- Sheet form, die-cut parts and roll form
- With or without pressure sensitive adhesive

Building a Part Number

Standard Options

0.005 NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and ⋖ В Ω Section I Section Section Section Section revision level __ = Standard configuration dash number, 1212 = 12" x 12" sheets, 12/250 = 12" x 250' rolls, or 00 = custom configuration AC = Adhesive, one side 00 = No adhesive Standard thicknesses available: 0.005" Q3 = Q-Pad 3 Material

Note: To build a part number, visit our website at www.bergquistcompany.com.

Sil-Pad®: U.S. Patents 4,574,879; 4,602,125; 4,602,678; 4,685,987; 4,842,911 and others

www.bergquistcompany.com

The Bergquist Company -North American Headquart 18930 West 78th Street Chanhassen, MN 55317 Phone: 800-347-4572 Fax: 952-835-0430 The Bergquist Company -European Headquarters Bramenberg 9a, 3755 BT Eemnes Netherlands Phone: 31-35-5380684 Fax: 31-35-5380095

The Bergquist Company - Asia Room 15, 8/F Wah Wai Industrial Centre No. 38-40, Au Pui Wan Street Fotan, Shatin, N.T. Hong Kong Ph: 852.2690,9296 Fax: 852.2690,9296 All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKE TABILITY AND FITNESS FOR PURPOSE. Sellers and manufacturers only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith NETHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARISING OUT OF THE USE OR THE INABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer. PDS_QP_3_12.08