imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Features and Benefits

- Thermal impedance: 0.41°C-in²/W (@50 psi)
- Tough dielectric barrier against cut-through
- High performance film
- Designed to replace ceramic insulators



Sil-Pad K-10 is a high performance insulator. It combines special film with a filled silicone rubber. The result is a product with good cut-through properties and excellent thermal performance.

Sil-Pad K-10 is designed to replace ceramic insulators such as Beryllium Oxide, Boron Nitride and Alumina. Ceramic insulators are expensive and they break easily. Sil-Pad K-10 eliminates breakage and costs much less than ceramics.

The High Performance Polyimide-Based Insulator

TYPICAL PROPERTIES OF SIL-PAD K-10						
PROPERTY	IMPERIAL VALUE		METRIC VALUE		TEST METHOD	
Color	Beige		Beige		Visual	
Reinforcement Carrier	Polyimide		Polyimide			
Thickness (inch) / (mm)	0.006		0.152		ASTM D374	
Hardness (Shore A)	90		90		ASTM D2240	
Breaking Strength (lbs/inch) / (kN/m)	30		5		ASTM D1458	
Elongation (%)	40		40		ASTM D412	
Tensile Strength (psi) / (MPa)	5000		34		ASTM D412	
Continuous Use Temp (°F) / (°C)	-76 to 356		-60 to 180			
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	6000		6000		ASTM D149	
Dielectric Constant (1000 Hz)	3.7		3.7		ASTM D150	
Volume Resistivity (Ohm-meter)	1012		10 ¹²		ASTM D257	
Flame Rating	VTM-O		VTM-O		U.L.94	
THERMAL						
Thermal Conductivity (W/m-K)	1.3		1.3		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
Pres	sure (psi)	10	25	50	100	200
TO-220 Thermal Performance	TO-220 Thermal Performance (°C/W)		2.19	2.01	1.87	1.76
Thermal Impedance (°C-in²/W) (1)		0.86	0.56	0.41	0.38	0.33
I) The ASTM D5470 test fixture was used. The reco	rded value inclu	udes interfacial	thermal resis	tance.These v	alues are prov	ided for

reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

Motor controls

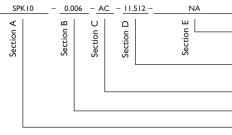
Typical Applications Include:

- Power supplies
- Power semiconductors

Configurations Available:

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

Building a Part Number



Standard Options

◀ example

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

___ = Standard configuration dash number, 11.512 = 11.5" × 12" sheets, 11.5/250 = 11.5" × 250' rolls, o 00 = custom configuration

AC = Adhesive one side 00 = No adhesive

Standard thicknesses available: 0.006"

SPK10 = Sil-Pad K10 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.



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