



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!



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The High Performance Kapton®-Based Insulator

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.

TYPICAL PROPERTIES OF SIL-PAD K-10						
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD			
Color	Beige	Beige	Visual			
Reinforcement Carrier	Kapton	Kapton	—			
Thickness (inch) / (mm)	0.006	0.152	ASTM D 374			
Hardness (Shore A)	90	90	ASTM D 2240			
Breaking Strength (lbs/inch) / (kN/m)	30	5	ASTM D 1458			
Elongation (%)	40	40	ASTM D 412			
Tensile Strength (psi) / (MPa)	5000	34	ASTM D 412			
Continuous Use Temp (°F) / (°C)	-76 to 356	-60 to 180	—			
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	6000	6000	ASTM D 149			
Dielectric Constant (1000 Hz)	3.7	3.7	ASTM D 150			
Volume Resistivity (Ohm-meter)	10 ¹²	10 ¹²	ASTM D 257			
Flame Rating	VTM-O	VTM-O	U.L.94			
THERMAL						
Thermal Conductivity (W/m-K)	1.3	1.3	ASTM D 5470			
THERMAL PERFORMANCE vs PRESSURE						
	Pressure (psi)	10	25	50	100	200
TO-220 Thermal Performance (°C/W)		2.35	2.19	2.01	1.87	1.76
Thermal Impedance (°C-in ² /W) (1)		0.86	0.56	0.41	0.38	0.33

1) 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.

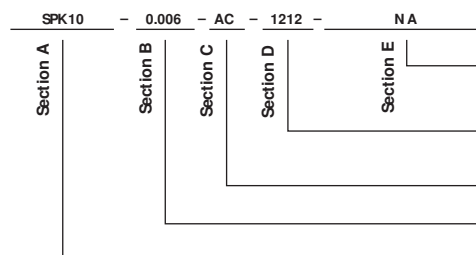
Typical Applications Include:

- Power supplies
- Motor controls
- Power semiconductors

Configurations Available:

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

Building a Part Number



Standard Options

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and 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: 0.006"

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.

Kapton® is a registered trademark of DuPont.