



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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HIGH CONDUCTIVITY THERMAL GAP FILLING PADS

Aavid utilizes a proprietary fiber orientation technology to produce highly thermally conductive materials that are utilized in these unique gap filling pads. Our Aavid SuperThermal line of TIMs deliver the high conductivity of carbon fiber without sacrificing the flexibility and adhesion capabilities of a polymer. The SuperThermal pads and sheets are ideal for cooling high heat sources such as CPUs, GPUs and high density LEDs. This line includes pads made from specialized organic materials with extremely high thermal conductivity and low volume resistance.

SIZES

SuperThermal Interface Pads are available in full sheets that Aavid can cut and shape to suit your needs. They are also available in easy to use 25.4mm x 25.4mm (1" x 1") and 76.2mm x 76.2mm (3" x 3") pads for quick and simple assembly. For full sheet sizes please contact Aavid.

PART NUMBERS

Aavid Gap Pads part numbers are made up of six parts that represent the product, thickness, adhesion and shape. Instructions on how to build your part numbers are available in the document [Building an Aavid Gap Pad Part Number](#).



FEATURES:

- Extremely High Thermal Conductivity
- Low Thermal Resistance
- Flexible, Easy Contouring
- Adhesive & Non-Adhesive Options
- Puncture, Shear and Tear Resistant

SUPERTHERMAL PRODUCT LINE DETAILS¹

Product Name	SuperThermal A072	SuperThermal B132	SuperThermal C128	SuperThermal D089
Thermal Properties				
Thermal Conductivity (W/mK)	7.2	13.2	12.8	8.9
Operating Temp. Range (°C)	-40° - 150°	-40° - 150°	-40° - 150°	-40° - 150°
Thermal Resistance at 10psi (at % Strain) ²	2.0 (at 18%)	1.1 (at 19%)	0.78 (at 9.6%)	0.98 (at 22%)
Thermal Resistance at 20psi (at % Strain) ²	1.9 (at 27%)	1.1 (at 26%)	0.72 (at 16%)	0.84 (at 24%)
Thermal Resistance at 40psi (at % Strain) ²	1.6 (at 31%)	0.98 (at 39%)	0.60 (at 30%)	0.58 (at 29%)
Mechanical Properties				
Color	Black/ Dark Grey	Grey	Black	Black
Adhesion	Double-Sided	Double-Sided	Non-Adhesive	Non-Adhesive
Base Material	Silicone	Silicone	Silicone	Silicone
Carrier / Reinforcement	PET Film	PET Film	PET Film	PET Film
Hardness (ASTM D2240, Shore 00)	63	55	65	77
Density (g/cm ³)	1.8	2.4	2.4	2.4
Tensile Strength (kPa)	33	22	16	44
Thickness Availability (mm)	1, 2 or 3mm	1, 2 or 3mm	0.5 or 1mm	0.2 or 1mm
Electrical Properties				
Volume Resistivity (Ω-m)	≥10 ¹⁰	≥10 ¹⁰	<100	<100
Breakdown Voltage (kVAC)	>1.0	>0.9	<0.1	<0.1
Flammability Rating UL94	V-0	V-0	V-0	V-0

¹ Measurement is for 1mm thickness, information on additional thicknesses is available on request.

² Strain is the ratio of the reduction in pad thickness to the initial thickness of the pad. Thermal resistance is measured in (°C x cm²/W).