

VK-B6S

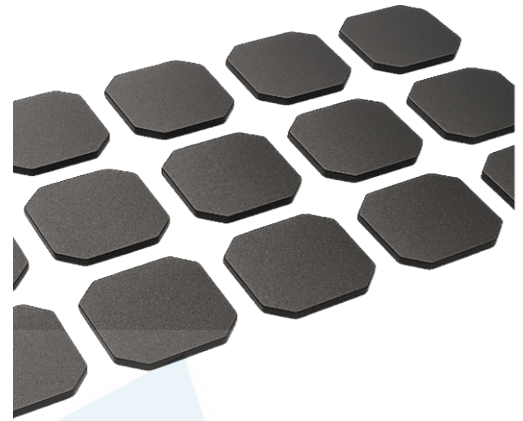
Budget-Friendly Entry-Level Pad



Product Description

VOT VK-B6S is a highly cost-effective thermal interface pad designed for high-volume, budget-sensitive applications. With a thermal conductivity of 2.5 W/m-K and a moderate hardness of Shore OO 50, it provides a reliable and stable thermal path for components with moderate power densities.

As the entry-level "All-Rounder" in the VOT portfolio, VK-B6S inherits the balanced mechanical properties of the VK series, offering a robust structural integrity that resists tearing and deformation. It is engineered for manufacturers who require a dependable, no-frills thermal solution that maximizes production yield while minimizing material costs. VK-B6S is the ideal choice for general-purpose cooling where consistent quality and extreme value-to-cost ratio are the primary requirements.



FEATURES & BENEFITS

● High Cost-Efficiency:

Optimized formulation specifically for mass-market applications to reduce overall BOM costs.

● Balanced Mechanical Strength:

Shore OO 50 hardness provides excellent handling characteristics and durability during assembly.

● Stable 2.5 W/m-K Performance:

Delivers consistent heat dissipation for a wide range of standard electronic components.

● Production Friendly:

High tensile strength and natural tackiness allow for easy placement and clean reworkability.

● Reliable Material Life:

Maintains physical and thermal properties over long-term operation in commercial environments.

● Universal Compatibility:

A versatile "workhorse" material suitable for diverse gap-filling requirements.

PROPERTY	VK-B6S	TEST METHOD
Construction	Ceramic Filled Silicone sheet	N/A
Color	Dark Grey	Visual
Density	2.8 g/cc	ASTM D792
Thickness Range	0.3mm~15.0mm	N/A
Thermal Conductivity	2.5 W/m-K	ASTM D5470
Rth at 1mm,10psi	0.58 °C-in ² /W	ASTM D5470
Hardness Shore OO	50	ASTM D2240
Dielectric Constant@1MHz	7 @1MHz	ASTM D150
Dielectric Strength	>8 KVac/mm	
Volume Resistivity	10 ¹³ Ω-cm	ASTM D257
Temperature Range	-40°C to 180°C	VOT Test Method
Flammability Rating	V-0	UL 94

Typical Applications

- Consumer Electronics
(Smart TVs, Set-Top Boxes, and Home appliances.)
- Power & Energy:
Power adapters, Chargers, and LED drivers.
- Networking:
Entry-level routers, Modems, and Switches.
- Lighting:
LED solid-state lighting and Signage.
- Industrial:
General controllers and Power conversion modules.
- Automotive:
Non-critical auxiliary electronic modules and infotainment.

Storage Conditions

- Storage Temperature: 15°C to 35°C, RH <50%
- Shelf Life: 12 months under above conditions

Limited Warranty: For a period of 12 months from the date of first sale, VOT warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s).
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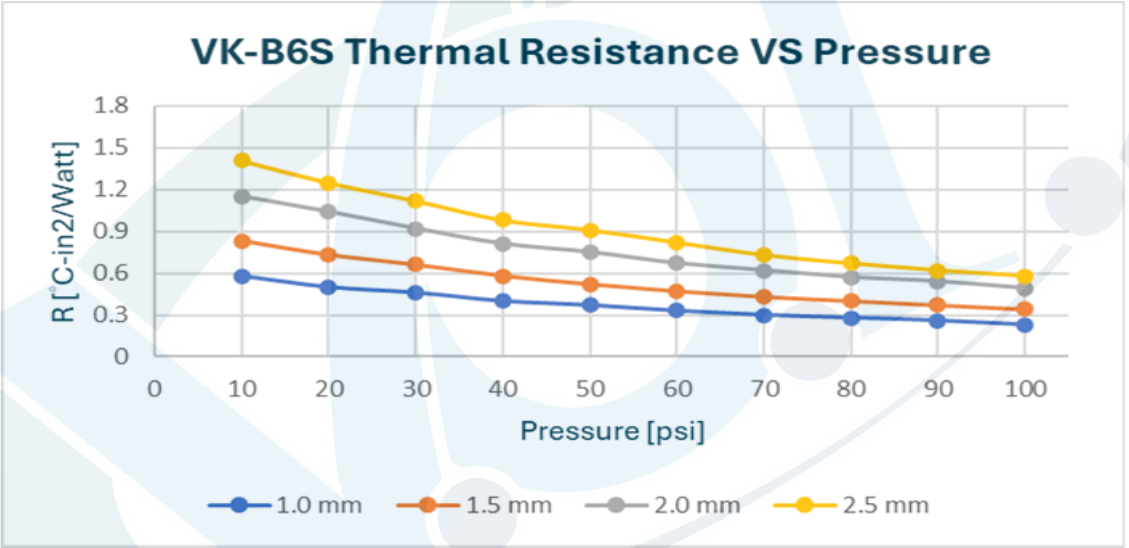
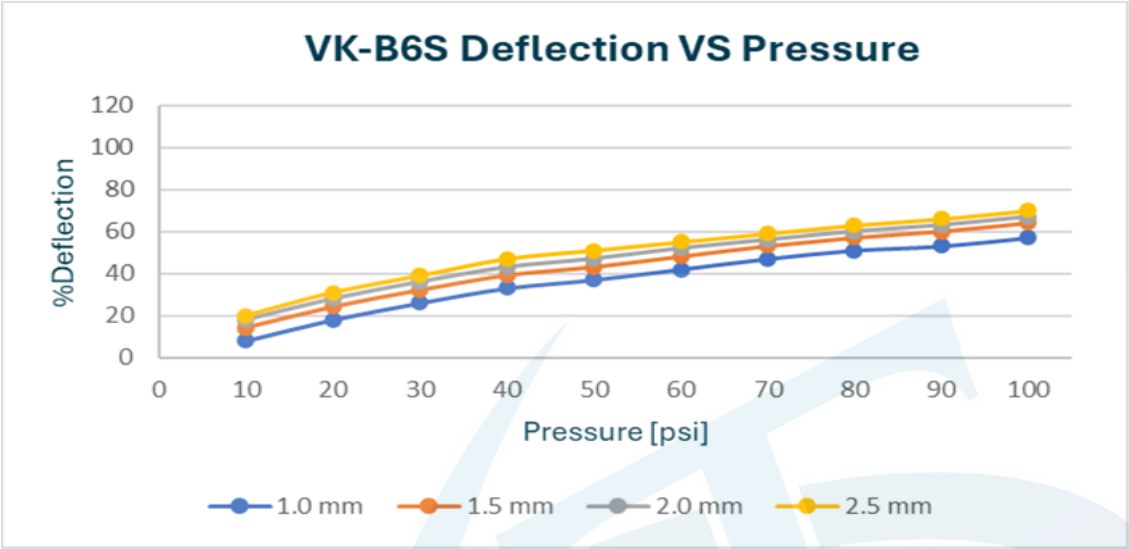
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VK-	B6S	-	XXXXXX	-	XXX
Gap filler	1: one side tack free 3: VK-6100 on one side 4: fiberglass reinforcement		size 200200=20*20 254254=25.4*25.4		Thickness 008=0.8mm 010=1.0mm

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