

CP Series Thermal Cap



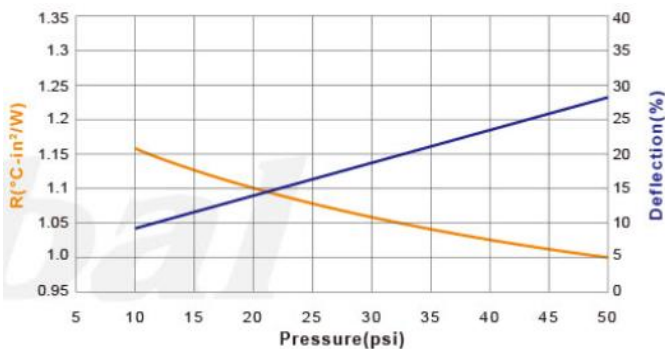
Features

- Low thermal contact resistance
- Electrically isolating
- Decrease the weight of the product
- Easy to assemble
- Thermal conduction and buffer effect

Applications

Electronic components: IC, CPU, MOS, LED, Mother Board, Power Supply, Heat Sink, LCD-TV, Notebook, PC, Telecom Device, Wireless Hub, DDR II Module, DVD Applications, Hand-set applications etc.

Thermal Resistance VS. Pressure VS. Deflection



| Pressure (psi) | R(°C-in ² /W) | Deflection(%) |
|----------------|--------------------------|---------------|
| 10 | 1.16 | 9 |
| 20 | 1.10 | 14 |
| 50 | 1.00 | 28 |

Standard Sizes (mm)

1. CP22 TO-220: 11.4x16x5.8
2. CP23 TO-220: 11.4x21.5x5.8
3. CP33 TO-247: 17.5x28.5x5.8

Testing sample thickness: 0.45mm

In "Thermal resistance V.S. Pressure V.S. Deflection" chart, CP Series provides low thermal impedance. The pressure gets higher, the thermal impedance gets lower. CP Series provides good compliance and softness.

Hardness: 75 (Shore A)



| Properties | CP22/CP23/CP33 | Unit | Tolerance | Test Method |
|--------------------------|----------------|--------------------------|-----------|-------------|
| Thermal Conductivity | 1.9 | W / mK | ±0.19 | ASTM D5470 |
| Thickness | 0.3/0.45 | mm | - | ASTM D374 |
| Color | Gray 灰 | - | - | Visual |
| Material | Silicone | - | - | - |
| Working Temperature | -45~+180 | °C | - | - |
| Density | 2.55 | g / cm ³ | - | ASTM D792 |
| Breakdown Voltage AC | 4 / 6 | KV | ±0.4/±0.6 | ASTM D149 |
| Breakdown Voltage DC | 6 / 8 | KV | ±0.6/±0.8 | ASTM D149 |
| Dielectric Constant | 5.8 | 1000Hz | - | ASTM D150 |
| Thermal Impedance @10psi | 1.16 | °C - in ² / W | - | ASTM D5470 |
| Thermal Impedance @20psi | 1.1 | °C - in ² / W | - | ASTM D5470 |
| Thermal Impedance @50psi | 1 | °C - in ² / W | - | ASTM D5470 |
| Hardness | 75 | Shore A | ±7 | ASTM D2240 |

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Thermal Interface Materials: Thermal Pad, Thermal Tape, Thermal Grease, Ceramic Heat Spreader

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