



CP Series Thermal Insulation Rubber Cap

Features

- · Low thermal contact impedance and buffer effect
- · Good electrical insulation
- · Decrease the weight of the product
- · Easy to assemble

Application:

Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Standard Sizes (mm):

1. CP22 TO-220: 11.4x16x5.8

3. CP33 TO-247: 17.5x28.5x5.8

2. CP23 TO-220: 11.4x21.5x5.8

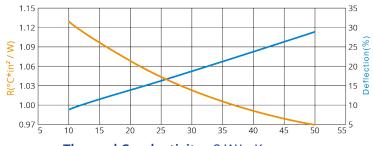
Properties

Contact Pressure, Thermal Impedance, and Deflection

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Contact Pressure (psi)	Thermal Impedance (°C*in²/W)	Deflection (%)	
10	1.13	9	
20	1.07	14	
50	0.97	29	

30

40

80

Thermal Conductivity: 2 W/mK

0.8 1.2 1.4 1.6 1.7 1.8 2.2 3.2 3.6 4.0 4.5 5.0

Hardness: 65 (Shore A) 25

Properties	Unit	CP22/CP23/CP33	Tolerance	Test Method
Thermal Conductivity	W/m•K	2	±10%	ASTM D5470 Modified
Thickness	mm	0.3/0.45	-	ASTM D374
Color	-	Gray	-	-
Material	-	Silicone	-	-
Operating Temperature	° C	-45~+180	-	-
Density	g/cm³	2.55	土5%	ASTM D792
Dielectric Breakdown Voltage (AC)	KV	≥4.1/≥6.1	-	ASTM D149
Dielectric Breakdown Voltage (DC)	KV	≥6.1/≥8.1	-	ASTM D149
Dielectric Constant	1000Hz	5.8	-	ASTM D150
Thermal Impedance@10psi	° C*in² / W	1.13		ASTM D5470 Modified
Thermal Impedance@20psi	° C*in² / W	1.07	-	ASTM D5470 Modified
Thermal Impedance@50psi	° C*in² / W	0.97	-	ASTM D5470 Modified
Hardness	Shore A	65	±7	ASTM D2240

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