



THINC Series (also known as CP Series)

Thermal Insulation Cap

Version 1.250919

Thermal Insulation Cap

T-Global's THINC Series thermal insulation caps are thermally conductive silicone caps for TO220 packages. They are electrically isolating, lightweight, easy to assemble and provide a low thermal impedance whilst buffering the delicate components.



Features

- Low thermal contact resistance
- Electrically isolating
- Easy to assemble
- Thermal conduction and buffer effect

Applications

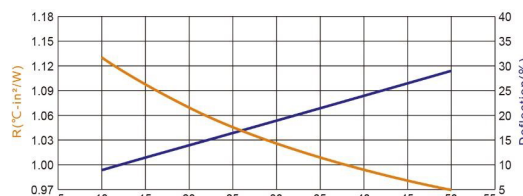
Electronic components: IC, CPU, MOS, LED, Motherboard, Power Supply, Heat Sink, LCD-TV, Notebook, PC, Telecoms, Wireless Hub, DDR II Module, DVD Applications, Hand-set Applications

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	THINC22, THINC23, THINC33	Unit	Tolerance	Test Method
Thermal Conductivity	2	W / mK	±10%	ASTM D5470
Colour	Grey	mm	-	Visual
Thickness	0.3 / 0.45	-	-	ASTM D374
Working Temperature	-45 to +180	°C	-	-
Density	2.55	g/cm³	-	ASTM D792
Dielectric Breakdown Voltage (AC)	4.1 / 6.1	KV	±0.4/±0.6	ASTM D149
Dielectric Breakdown Voltage (DC)	6.1 / 8.1	KV	±0.6/±0.8	-
Dielectric Constant	5.8	1000Hz		
Thermal Impedance @10psi	1.13	°C-in²/W		
Thermal Impedance @20psi	1.07	°C-in²/W	-	UL 94
Thermal Impedance @50psi	0.97	°C-in²/W	-	ASTM D257
Hardness	65	Shore A	±7	ASTM D2240

Thermal Impedance vs Pressure vs Deflection



	Pressure (psi)	R (°C-in²/W)	Deflection (%)
THINC Series	10	1.13	9
	20	1.07	14
	50	0.97	29

Standard Sizing

Standard Sizes	Dimensions
THINC22-TO220	16.0-11.4-5.8-0.3
THINC22-TO220	16.0-11.4-5.8-0.45
THINC23-TO220	21.5-11.4-5.8-0.3
THINC23-TO220	21.5-11.4-5.8-0.45
THINC33-TO247	28.5-17.5-5.8-0.3
THINC33-TO247	28.5-17.5-5.8-0.45

T-Global Technology Limited
1 & 2 Cosford Business Park, Central Park,
Lutterworth, Leicestershire LE17 4QU U.K.

Tel: +44 (0)1455 553 510
Email: sales@tglobaltechnology.com
Web: www.tglobaltechnology.com
VAT #: GB 116 662 714

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