

SP-23

Thermal Conductive Rubber Cap

LiPOLY SP-23 is a stereoscopic thermal conductive silicone rubber cap as substrate through a special production process. Due to its excellent characteristic of high thermal conductivity, insulation, shock-proof and convenient assembly, it is widely used in heat transistor refer to TO220 / TO3P, diode, triode.

■ FEATURES

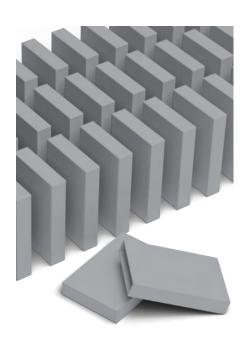
- / Thermal conductivity: 0.8 W/m*K
- / Good insulator
- / High recovery
- / Easy to assemble
- / Available in a range of thicknesses

■ TYPICAL APPLICATION

- / Between CPU and heat sink
- / Between a component and heat sink
- / Notebook computers
- / Power supplies
- / High speed mass storage drives
- / Telecommunication hardware
- / 5G base station & infrastructure
- / EV electric vehicle

■ SPECIFICATIONS

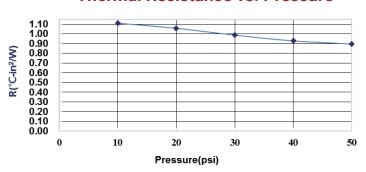
/ 11.4mm x 16.0mm x 5.8mm / 11.4mm x 21.5mm x 5.8mm / 17.5mm x 28.5mm x 5.8mm



■ TYPICAL PROPERTIES

PROPERTY	SP-23	TEST METHOD	UNIT
Color	Gray	Visual	-
Resin base	Silicone	-	-
Thickness	0.30 / 0.45	ASTM D374	mm
Density	1.8	ASTM D792	g/cm³
Hardness	55	ASTM D2240	Shore A
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	1	ASTM D5470 modify	%
Deflection @20 psi	2	ASTM D5470 modify	%
Deflection @30 psi	3	ASTM D5470 modify	%
Deflection @40 psi	4	ASTM D5470 modify	%
Deflection @50 psi	5	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	7/8	ASTM D149	KV
Surface resistivity	>1012	ASTM D257	Ohm
Volume resistivity	>1013	ASTM D257	Ohm-m
THERMAL@0.3mm			
Thermal conductivity	0.8	ASTM D5470	W/m*K
Thermal impedance@10 psi	1.110	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	1.058	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.988	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.929	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.897	ASTM D5470	°C-in²/ W

Thermal Resistance vs. Pressure



Note: All specifications provided by LiPOLY are subject to change without notice. The test methods used by LiPOLY are based on the TIM Tester method and ASTM D5470 test method. These test methods are used as the definition standards for LiPOLY Property values provided in this document are not for product specifications or guaranteed. This document does not guarantee the performance of the product and verify the safety before using the material. We strongly recommend the purchaser pre-test the product and verify the performance of the product and verify the performance o