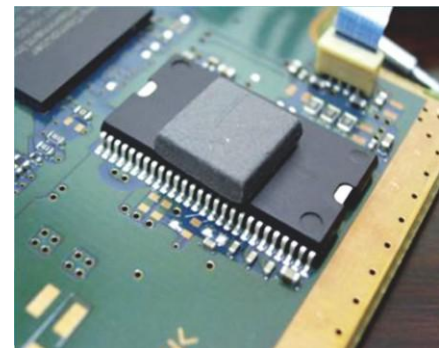




TMA-1510

Silicone Thermal Conductive Pad



Description

TMA-1510 thermal conductive pad is made of silicone rubber and is filled with conductive ceramic powder. It has good thermal conductivity and insulation.



Characteristic

- No hazardous substances, High insulation, Good flame resistant, Resistance to high and low temperature, High compression
- Low oil permeability
- Having good thermal conductive performance and suitable for filling structure gap



Application

- Chips
- Routers
- Computer fan
- Plasma flat screen
- Computer
- Mobile phone
- Light-emitting diodes

Specification(1.5W/m.K)

Properties		Unit	TMA-1510	Test Standard
Color		/	Black	Visual Inspection
Specific Gravity		g/cm ³	2.2	ASTM D792
Thickness (±10%)		mm	0.5-10.0	ASTM D374
Thermal Conductivity		W/m.K	1.5	ASTM D5470 Modify
Thermal resistance@20psi 1.0mm		°C.in ² /W	0.98	ASTM D5470 Modify
Compression ratio@20psi 1.0mm		%	26	—
Hardness		Shore OO	40	ASTM D2240
Dielectric Strength		KV/mm	11	ASTM D149
Dielectric Constant	50Hz	/	5.89	ASTM D150
	1KHz	/	5.15	
	1MHz	/	5.01	
Volume Resistivity		Ω.cm	10 ¹³	GB/T 1410
Flammability Class		/	V0	UL 94
Application Temperature		°C	- 40~+150	—
Self-adhesive		/	Double-sided Adhesive	—
Glass Fiber Reinforced		/	√	—

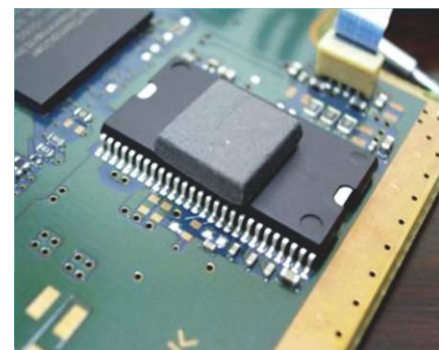
Note : 1. Single-sided adhesive : TMA-1510X ; Glass Fiber Reinforced : TMA-F1510 ; Single-sided adhesive and Glass Fiber Reinforced : TMA-F1510X.

2. The above data is obtained only under the conditions of our laboratory. The result may be biased due to different test conditions, equipment and environment.



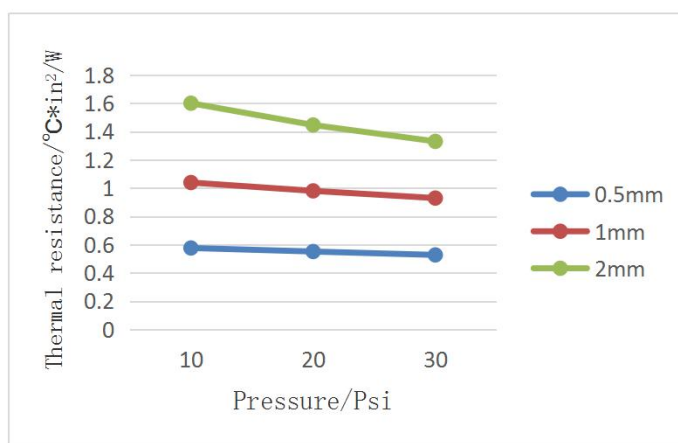
TMA-1510

Silicone Thermal Conductive Pad



TMA-1510 The relationship between thermal resistance and pressure

Pressure/Psi	TMA-1510 thermal resistance / $^{\circ}\text{C}\cdot\text{in}^2/\text{W}$		
	0.5mm	1mm	2mm
10	0.576	1.039	1.600
20	0.551	0.976	1.446
30	0.527	0.929	1.330



TMA-1510 The relationship between compression and pressure

Pressure/Psi	TMA-1510 Compression ratio/%		
	0.5mm	1mm	2mm
10	14.42	19.99	36.45
20	18.53	25.95	43.42
30	25.10	30.88	48.61

