

COOLINQ SG-25

Graphite Heat Spreader



- Lightweight & Flexible
- 25um Graphite
- Excellent Thermal Conductivity

COOLINQ SG-25 is an advanced thermal management solution engineered from high-quality graphite, this innovative heat spreader offers exceptional in-plane thermal conductivity while maintaining a lightweight, ultra-thin profile.

COOLINQ SG-25 ultra thin 0.025mm thickness integrates into compact electronic designs without adding unnecessary bulk. Its flexibility allows for precise customization which easily cut, shaped, or layered to meet the specific geometry requirements of diverse applications. Unlike traditional metal heat spreaders, it conforms to complex surfaces, enhancing thermal contact and improving heat dissipation efficiency.

Ideal for consumer electronics, automotive power modules, aerospace systems, and industrial applications. Whether used for high-power processors, battery thermal management, or next-generation electronic devices, it is a versatile and effective addition to any thermal management strategy.

Specifications

Property	Value	Unit
Thickness	0.025	mm
Density	2.1	g/cm ³
X, Y Thermal Conductivity (Angstrom Method)	1500	W/mK
Z Thermal Conductivity (Laser Flash Method)	10	W/mK
Specific Heat Capacity	0.94	J/(g · °C)
Electrical Conductivity	> 13000	S/cm
Operating Temperature	-40 ~ 400	°C

Storage and Handling

To prevent contact with graphite powder, it is advisable to wear gloves and a smock during handling.

Store the product away from potential ignition sources and oxidizing materials. Ensure it is kept in a cool, dry place, sealed tightly within a container. Due to its high thermal conductivity, avoid direct contact with the product when the operating temperature exceeds 60°C or falls below freezing.

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