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Internal

Graphene

Features

- Ultra thin, Low mass
- Available for unventilated design
- No dusting issue
- RoHS Compliant

RS PRO Graphene Tile

RS Stock No.: 2802789



Stock No.

Product Code	Size
2802789	38mm x 38mm x 0.5mm
2802790	50mm x 50mm x 0.5mm

RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Graphene

Product Description

Suitable for products requiring flat temperature.

Electronic components – Electric Vehicles, 5G, Autopilot System, Mobile Phone, AIOT, HPC (High Performance Computing}, Server, IC, CPU, MOS, LED, Mother Board,Power Supply, Heat Sink, LCD-TV, Notebook, PC, Telecom Device, Wireless

Technical Specifications

Properties		Unit	Tolerance	Test Method
Thermal Conductivity (XV axis)	1500	W/mK	–	AC calorimeter
Thermal Conductivity (Z axis)	12	W/mK	–	Laser flash
Total Thickness	50	μm	–	Meter
Copper Foil Thickness	35	μm	–	Meter
Coating Thickness	15	μm	–	Meter
Vertical Resistivity (XV axis)	2.57	Ohm-inch²	–	QJ 1523-1988
Parallel Resistivity (Z axis)	0.66	Ohm-inch²	–	QJ 1523-1988
Cross-cut Tape Test	4B	–	–	ASTM D3359B
Pencil Hardness Test	2H	-	–	ASTM D3363
Solvent Resistance (Alcohol)	Pass (5 times)	–	–	ASTM D5402
Rubber Abrasive Test	Pass (150 times)	–	–	ASTM D7835
High Temperature & Humidity Test @85 °C/85% RH	Pass (500 hrs)	–	–	IEC-60068-2-78
Thermal Shock Test @-20-+80 °C	Pass (500 cycles)	–	–	IEC-60068-2-14
Temperature Range of Utility	-20~+120	°C	–	ISO 16750-4

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