

BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-Low Profile



ATS Part#:	ATS-51230D-C1-R0
Description:	23.00 x 23.00 x 9.50 mm BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-Low Profile
Heat Sink Type:	maxiFLOW
Heat Sink Attachment:	maxiGRIP
Equivalent Part Number:	ATS-51230D-C2-R0 Discontinued

*Image above is for illustration purpose only.

Features & Benefits

- **maxiFLOW™** design features a low profile, spread fin array that maximizes surface area for more effective convection (air) cooling
- **maxiGRIP™** attachment applies steady, even pressure to the component and does not require holes in the PCB
- Meets Telcordia GR-63-Core Office Vibration; ETSI 300 019 Transportation Vibration; and MIL-STD-810 Shock and Unpackaged Drop Testing standards
- Comes preassembled with high performance, phase changing, thermal interface material
- Designed for low profile components from 1.5 to 2.99mm

Thermal Performance

AIR VELOCITY		@200 LFM 1.0 M/S	@300 LFM 1.5 M/S	@400 LFM 2.0 M/S	@500 LFM 2.5 M/S	@600 LFM 3.0 M/S	@700 LFM 3.5 M/S	@800 LFM 4.0 M/S
THERMAL RESISTANCE	Unducted Flow	11 °C/W	8.9 °C/W	7.7 °C/W	6.9 °C/W	6.3 °C/W	5.8 °C/W	5.4 °C/W
	Ducted Flow	7.5	N/A	N/A	N/A	N/A	N/A	N/A

Product Detail

Schematic Image	Dimension A	Dimension B	Dimension C	Dimension D	TIM	Finish
*Image above is for illustration purpose only.	23.00 mm	23.00 mm	9.50 mm	37.5 mm	T766	BLACK- ANODIZED
Notes: • Dimension A and B refer to component size. • Dimension C is the heat sink height from the bottom of the base to the top of the fin field. • ATS-51230D-C2-R0 is the exact heat sink assembly with an equivalent thermal interface material (Saint Gobain C1100F). NOTE: Saint Gobain C1100F is discontinued effective 12/31/10. • Thermal performance data are provided for reference only. Actual performance may vary by application. • ATS reserves the right to update or change its products without notice to improve the design or performance. • ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant. • Optional maxiGRIP™ Installation/Removal Tool Set P/N: MGT230 • Contact ATS to learn about custom options available.						

For more information, to find a distributor or to place an order, please contact us at 781-769-2800 (North America), sales@qats.com or www.qats.com.

© 2013 Advanced Thermal Solutions, Inc. | 89-27 Access Road | Norwood MA | 02062 | USA



Rev - 011217