

# BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-STD



ATS Part#: **ATS-50190G-C1-R0**  
 Description: 19.00 x 19.00 x 12.50 mm BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-STD

Heat Sink Type: **maxiFLOW**  
 Heat Sink Attachment: **maxiGRIP**  
 Equivalent Part Number: **ATS-50190G-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 standard height components from 3 to 4.5mm

## 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	10.2 °C/W	8.4 °C/W	7.3 °C/W	6.5 °C/W	6 °C/W	5.6 °C/W	5.2 °C/W
	Ducted Flow	8.4	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
<p><i>*Image above is for illustration purpose only.</i></p>	19.00 mm	19.00 mm	12.50 mm	34.8 mm	T766	BLUE-ANODIZED
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Dimension <b>A</b> and <b>B</b> refer to component size.</li> <li>• Dimension <b>C</b> is the heat sink height from the bottom of the base to the top of the fin field.</li> <li>• ATS-50190G-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.</li> <li>• Thermal performance data are provided for reference only. Actual performance may vary by application.</li> <li>• ATS reserves the right to update or change its products without notice to improve the design or performance.</li> <li>• ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.</li> <li>• Optional <b>maxiGRIP™</b> Installation/Removal Tool Set P/N: <b>MGT170</b></li> <li>• Contact ATS to learn about custom options available.</li> </ul>						

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

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