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



ATS Part#:

Description:

#### ATS-51450R-C0-R0

45.00 x 45.00 x 19.50 mm BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-Low Profile

Heat Sink Type: maxiFLOW Heat Sink Attachment: maxiGRIP Equivalent Part Number: See below for part numbes with TIM

\*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
- Does not come preassembled with high performance 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	1.6 °C/W	1.3 °C/W	1.1 °C/W	1 °C/W	0.9 °C/W	0.8 °C/W	0.8 °C/W
	Ducted Flow	1.2	N/A	N/A	N/A	N/A	N/A	N/A

## **Product Detail**

Schematic Image	Dimension A	Dimension B	Dimension C	Dimension D	ТІМ	Finish			
	45.00 mm	45.00 mm	19.50 mm	76.5 mm	No TIM	BLACK- ANODIZED			
	<ul> <li>Notes:</li> <li>Dimension A and B refer to component size.</li> <li>Dimension C is the heat sink height from the bottom of the base to the top of the fin field.</li> <li>ATS-51450R-C1-R0 uses T412 Thermal Interface Material. ATS-51450R-C2-R0 is the exact heat sink assembly with an equivalent thermal interface material (Saint-Gobain C675).</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> </ul>								
<ul> <li>ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.</li> <li>Optional maxiGRIP<sup>TM</sup> Installation/Removal Tool Set P/N: MGT450</li> <li>Contact ATS to learn about custom options available.</li> </ul>									
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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.



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