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





ATS Part#: ATS-51170D-C1-R0

Description: 17.00 x 17.00 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-51170D-C2-R0 Discontinued

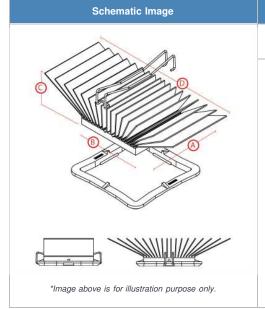
## **Features & Benefits**

- maxiFLOW™ design features a low profile, spread fin array that maximizes surface area for more effective convection (air) cooling
- maxiGRIPTM 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	18.5 °C/W	15.1 °C/W	13.1 °C/W	11.7 °C/W	10.7 °C/W	9.9 °C/W	9.3 °C/W
	Ducted Flow	12.6	N/A	N/A	N/A	N/A	N/A	N/A

### **Product Detail**



Dimension A	Dimension B	Dimension C	Dimension D	TIM	Finish
17.00 mm	17.00 mm	9.50 mm	28.4 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-51170D-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: MGT170
- 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), <a href="mailto:sales@qats.com">sales@qats.com</a> or <a href="mailto:www.qats.com">www.qats.com</a>.



<sup>\*</sup>Image above is for illustration purpose only.