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



| | |
|---|---|
| ATS Part#: | **ATS-51300R-C1-R0** |
| Description: | 30.00 x 30.00 x 19.50 mm BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-Low Profile |
| Heat Sink Type: | maxiFLOW |
| Heat Sink Attachment: | maxiGRIP |
| Equivalent Part Number: | ATS-51300R-C2-R0 Discontinued |

**Image above is for illustration purpose only.*

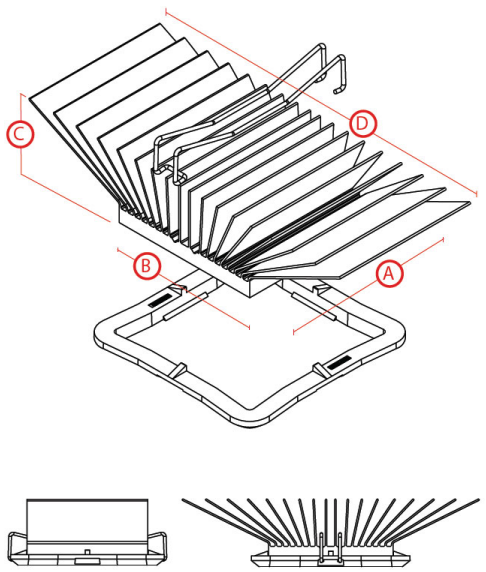
## Features & Benefits

- **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 | 3.3 °C/W | 2.7 °C/W | 2.4 °C/W | 2.1 °C/W | 2 °C/W | 1.8 °C/W | 1.7 °C/W |
| | Ducted Flow | 2.6 | 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.* | 30.00 mm | 30.00 mm | 19.50 mm | 53.3 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-51300R-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), **sales@qats.com** or **www.qats.com**.

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

ATS ADVANCED THERMAL SOLUTIONS, INC. Innovations in Thermal Management®