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

ATS Part#: **ATS-51425R-C1-R0**

Description: 42.50 x 42.50 x 19.50 mm  BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-Low Profile

Heat Sink Type: maxiFLOW

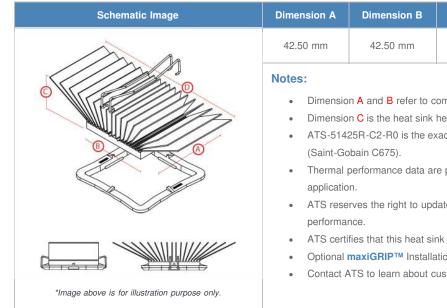Heat Sink Attachment: maxiGRIP

Equivalent Part Number: ATS-51425R-C2-R0

*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 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 | 1.9 °C/W | 1.5 °C/W | 1.3 °C/W | 1.2 °C/W | 1.1 °C/W | 1 °C/W | 0.9 °C/W |
| | Ducted Flow | 1.5 | 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 |
|---|---|---|---|---|---|---|
| | 42.50 mm | 42.50 mm | 19.50 mm | 72.9 mm | T412 | 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-51425R-C2-R0 is the exact heat sink assembly with an equivalent thermal interface material (Saint-Gobain C675).
- 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: **MGT425**
- Contact ATS to learn about custom options available.

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