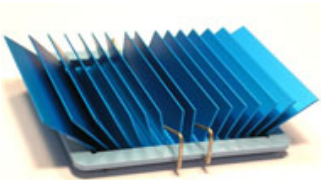


# BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-STD



*\*Image above is for illustration purpose only.*

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| ATS Part#:              | ATS-50450G-C1-R0                                                                |
| Description:            | 45.00 x 45.00 x 12.50 mm BGA Heat Sink - High Performance maxiFLOW/maxiGRIP-STD |
| Heat Sink Type:         | maxiFLOW                                                                        |
| Heat Sink Attachment:   | maxiGRIP                                                                        |
| Equivalent Part Number: | ATS-50450G-C2-R0                                                                |

## 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 standard height components from 3 to 4.5mm

## Thermal Performance

| AIR VELOCITY       |               | @200 LFM<br>1.0 M/S | @300 LFM<br>1.5 M/S | @400 LFM<br>2.0 M/S | @500 LFM<br>2.5 M/S | @600 LFM<br>3.0 M/S | @700 LFM<br>3.5 M/S | @800 LFM<br>4.0 M/S |
|--------------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| THERMAL RESISTANCE | Unducted Flow | 2.1 °C/W            | 1.6 °C/W            | 1.4 °C/W            | 1.2 °C/W            | 1.1 °C/W            | 1.1 °C/W            | 1 °C/W              |
|                    | Ducted Flow   | 1.6                 | 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        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|------|---------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 45.00 mm    | 45.00 mm    | 12.50 mm    | 69.6 mm     | T412 | 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-50450G-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><li>ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.</li><li>Optional maxiGRIP™ Installation/Removal Tool Set P/N: <b>MGT450</b></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](mailto:sales@qats.com) or [www.qats.com](http://www.qats.com).

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