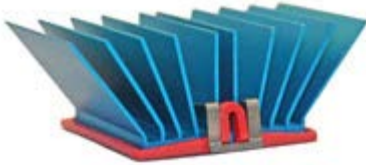


# BGA Heat Sink - High Performance maxiFLOW/superGRIP



|                         |                                                                              |
|-------------------------|------------------------------------------------------------------------------|
| ATS Part#:              | ATS-X50230P-C1-R0                                                            |
| Description:            | 23.00 x 23.00 x 17.50 mm BGA Heat Sink - High Performance maxiFLOW/superGRIP |
| Heat Sink Type:         | maxiFLOW                                                                     |
| Heat Sink Attachment:   | superGRIP                                                                    |
| Equivalent Part Number: | N/A                                                                          |

\*Image above is for illustration purpose only.

## Features & Benefits

- Designed for 23 x 23 mm components
- Requires minimal space around the component's perimeter; ideal for densely populated PCBs
- Allows the heat sink to be detached and reattached without damaging the component or the PCB, an important feature in the event a PCB may need to be reworked
- Strong, uniform attachment force helps achieve maximum performance from phase-changing TIMs
- Eliminates the need to drill mounting holes in the PCB

## 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 | 5.1 °C/W            | 4.2 °C/W            | 3.6 °C/W            | 3.3 °C/W            | 3 °C/W              | 2.8 °C/W            | 2.6 °C/W            |
|                    | Ducted Flow   | 4.1                 | 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        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|------|---------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23.00 mm    | 23.00 mm    | 17.50 mm    | 41.5 mm     | T766 | 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>• 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>• Contact ATS to learn about custom options available.</li></ul> |             |             |             |             |      |               |

\*Image above is for illustration purpose only.

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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