

# BGA Heat Sink (High Aspect Ratio Ext.) Straight Fin



ATS Part#: **ATS042042003-SF-14B**  
 Description: 42.00 x 42.00 x 3.00 mm BGA Heat Sink (High Aspect Ratio Ext.) Straight Fin  
 Heat Sink Type: **Straight Fin**  
 Heat Sink Attachment: **superGRIP**  
 Equivalent Part Number: **N/A**

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

## Features & Benefits

- High aspect ratio, straight fin heat sinks that are ideal for compact PCB environments
- Features a low profile, slant fin array that offers many of the performance benefits of **maxiFLOW™** at a great value
- Higher performance helps ensure reliable product life at a lower cost than other extruded heat sinks
- Comes standard without interface material or with most common pressure sensitive thermal tapes as a custom option

## 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 | 29.12 °C/W          | 28.4 °C/W           | 27.4 °C/W           | 26.1 °C/W           | 24.7 °C/W           | 23.2 °C/W           | 21.6 °C/W           |
|                    | Ducted Flow   | 6.7                 | 5.6                 | 5                   | 4.5                 | 4.2                 | 3.9                 | 3.7                 |

## Product Detail

| Schematic Image   | Dimension A | Dimension B | Dimension C | Dimension D | TIM | Finish         |
|---|-------------|-------------|-------------|-------------|-----|----------------|
|   | 42.00 mm    | 42.00 mm    | 3.00 mm     | 42 mm       | N/A | BLACK-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>• Dimension <b>D</b> is fin tip to fin tip.</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> |             |             |             |             |     |                |

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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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