

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



|                         |                                                                              |
|-------------------------|------------------------------------------------------------------------------|
| ATS Part#:              | <b>ATS042042024-SF-14W</b>                                                   |
| Description:            | 42.00 x 42.00 x 24.00 mm BGA Heat Sink (High Aspect Ratio Ext.) Straight Fin |
| Heat Sink Type:         | Straight Fin                                                                 |
| Heat Sink Attachment:   | N/A                                                                          |
| Equivalent Part Number: | N/A                                                                          |

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

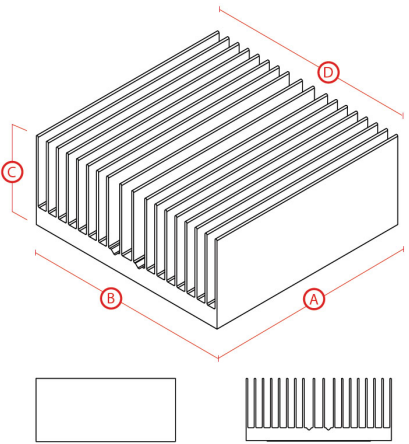
## Features & Benefits

- High aspect ratio, straight fin heat sinks that are ideal for compact PCB environments
- Fabricated from extruded aluminum, which minimizes thermal resistance from the base to the fins, reduces weight and keeps costs low
- 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 | 2.56 °C/W           | 1.5 °C/W            | 1.2 °C/W            | 1 °C/W              | 0.9 °C/W            | 0.8 °C/W            | 0.7 °C/W            |
|                    | Ducted Flow   | 1                   | 0.8                 | 0.7                 | 0.7                 | 0.6                 | 0.6                 | 0.6                 |

## Product Detail

| Schematic Image                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Dimension A | Dimension B | Dimension C | Dimension D | TIM | Finish         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-----|----------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 42.00 mm    | 42.00 mm    | 24.00 mm    | 42 mm       | N/A | BLACK-ANODIZED |
| <b>Notes:</b> <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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