

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



ATS Part#: **ATS043045016-PF033**  
 Description: 44.50 x 43.20 x 16.50 mm BGA Heat Sink (High Aspect Ratio Ext.) Standard Pin Fin

Heat Sink Type: **Standard Pin Fin**  
 Heat Sink Attachment: **N/A**  
 Equivalent Part Number: **N/A**



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

## Features & Benefits

- Excellent balance of low cost and high performance in an aluminum heat sink.
- Designed for semiconductor devices with omni-directional airflow requirements.
- 11 x 10 pin array
- Available with a variety of thermal adhesive tape options. Contact sales@qats.com for product configurations.

## 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	3.2 °C/W	N/A °C/W	N/A °C/W	N/A °C/W	N/A °C/W	N/A °C/W	N/A °C/W
	Ducted Flow	0	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
<p><i>*Image above is for illustration purpose only.</i></p>	44.50 mm	43.20 mm	16.50 mm	N/A mm	NO TIM	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>• 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>						

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).

© 2013 Advanced Thermal Solutions, Inc. | 89-27 Access Road | Norwood MA | 02062 | USA



**ATS** ADVANCED  
THERMAL  
SOLUTIONS, INC.  
Innovations in Thermal Management®