

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



ATS Part#: **ATS019019011-MF-6J**  
 Description: 19.00 x 19.00 x 11.00 mm BGA Heat Sink (High Aspect Ratio Ext.) Slant Fin



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

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

## Features & Benefits

- Features a low profile, slant fin array that offers many of the performance benefits of **maxiFLOW™** at a great value
- 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 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	11.36 °C/W	8.6 °C/W	7.3 °C/W	6.5 °C/W	6 °C/W	5.5 °C/W	5.2 °C/W
	Ducted Flow	6.8	5.8	5.1	4.7	4.3	4.1	3.8

## 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>	19.00 mm	19.00 mm	11.00 mm	22.19 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>						

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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