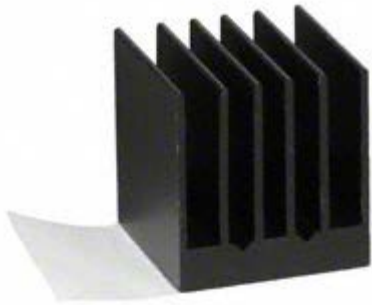


# BGA Heat Sink - High Performance Straight Fin w/Thermal Tape



ATS Part#:	ATS-54190R-C1-R0
Description:	19.00 x 19.00 x 19.50 mm BGA Heat Sink - High Performance Straight Fin w/Thermal Tape
Heat Sink Type:	Straight Fin
Heat Sink Attachment:	Thermal Tape
Equivalent Part Number:	ATS-54190R-C2-R0

\*Image above is for illustration purpose only.

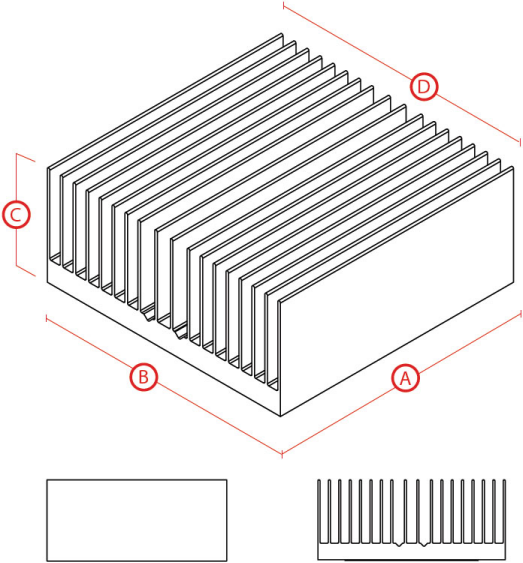
## Features & Benefits

- High aspect ratio, straight fin heat sinks that are ideal for compact PCB environments
- Designed specifically for BGAs and other surface mount packages
- Comes preassembled with high performance thermal interface material

## 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	8.4 °C/W	6.8 °C/W	5.9 °C/W	5.3 °C/W	4.9 °C/W	4.5 °C/W	4.3 °C/W
	Ducted Flow	5.3	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
	19.00 mm	19.00 mm	19.50 mm	N/A mm	T412	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>• ATS-54190R-C2-R0 is the exact heat sink assembly with an equivalent thermal interface material (Saint-Gobain C675).</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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