

# BGA Heat Sink - High Performance Device Specific - NXP



ATS Part#:	<b>ATS-59003-C1-R0</b>
Description:	32.00 x 50.00 x 12.00 mm BGA Heat Sink - High Performance Device Specific - NXP
Heat Sink Type:	<b>NXP</b>
Heat Sink Attachment:	<b>maxiGRIP</b>
Equivalent Part Number:	<b>ATS-59003-C2-R0 Discontinued</b>

\*Image above is for illustration purpose only.

## Features & Benefits

- Designed for flip-chip processors such as NXP MPCs
- maxiGRIP™** attachment applies steady, even pressure to the component and does not require holes in the PCB
- Comes preassembled with high performance, phase changing, 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	3.8 °C/W	3 °C/W	2.6 °C/W	2.3 °C/W	2.1 °C/W	2 °C/W	1.9 °C/W
	Ducted Flow	2.4	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
	32.00 mm	50.00 mm	12.00 mm	71.3 mm	T766	BLACK-ANODIZED
<b>Notes:</b>						
<ul style="list-style-type: none"><li>Dimension A and B refer to component size.</li><li>Dimension C is the heat sink height from the bottom of the base to the top of the fin field.</li><li>ATS-59003-C2-R0 is the exact heat sink assembly with an equivalent thermal interface material (Saint Gobain C1100F). NOTE: Saint Gobain C1100F is discontinued effective 12/31/10.</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>Optional <b>maxiGRIP™</b> Installation/Removal Tool Set P/N: <b>MGT170</b></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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