

# BGA Heat Sink - High Performance Device Specific - Freescale



ATS Part#: **ATS-59004-C1-R0**  
 Description: 32.00 x 50.00 x 12.00 mm BGA Heat Sink - High Performance Device Specific - Freescale  
 Heat Sink Type: **Freescale**  
 Heat Sink Attachment: **maxiGRIP**  
 Equivalent Part Number: **ATS-59004-C2-R0 Discontinued**

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

## Features & Benefits

- Designed for flip-chip processors such as Freescale 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	3.2 °C/W	2.46 °C/W	2 °C/W	1.7 °C/W	1.5 °C/W	1.3 °C/W	1.2 °C/W
	Ducted Flow	1.9	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>	32.00 mm	50.00 mm	12.00 mm	80.2 mm	T766	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-59004-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>						

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

