

# Ultra High Performance BGA Cooling Solutions w/ maxiGRIP™ Attachment



ATS Part#:	<b>ATS-50290P-C1-R0</b>
Description:	maxiFLOW™ maxiGRIP™ HS Assembly- STD, T766, BLUE-ANODIZED
Heat Sink Type:	maxiFLOW
Heat Sink Attachment:	maxiGRIP
Equivalent Part Number:	<a href="#">ATS-50290P-C2-R0 Discontinued</a>

\*Image above is for illustration purpose only.

## Features & Benefits

- maxiFLOW™ design features a low profile, spread fin array that maximizes surface area for more effective convection (air) cooling
- maxiGRIP™ attachment applies steady, even pressure to the component and does not require holes in the PCB
- Meets Telcordia GR-63-Core Office Vibration; ETSI 300 019 Transportation Vibration; and MIL-STD-810 Shock and Unpackaged Drop Testing standards
- Comes pre-assembled with high performance, phase changing, thermal interface material
- Designed for standard height components from 3 to 4.5mm
- "Keep-Out" Requirements: An "Un-Populated" border zone of 5mm around the component is necessary to facilitate the Installation/Removal of the maxiGRIP™. Please refer to the [maxiGRIP™ Keep-Out Guidelines](#) and [maxiGRIP™ Installation/Removal Instructions](#) for further details.

## 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	3.46 °C/W	2.82 °C/W	2.46 °C/W	2.22 °C/W	2.04 °C/W	1.90 °C/W	1.79 °C/W
	Ducted Flow	2.80	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
 	29.0 mm	29.0 mm	17.5 mm	51.7 mm	T766	BLUE-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-50290P-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 <a href="#">maxiGRIP™</a> Installation/Removal Tool Set P/N: <a href="#">MGT290</a></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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