# **Ultra High Performance BGA Cooling Solutions** w/ maxiGRIP<sup>™</sup> Attachment





ATS Part#:

Description:

#### ATS-51330R-C1-R0

maxiFLOW™ maxiGRIP™ HS Assembly- LP, T766, BLACK- ANODIZED

Heat Sink Type: maxiFLOW Heat Sink Attachment:

maxiGRIP Equivalent Part Number: ATS-51330R-C2-R0 Discontinued

\*Image above is for illustration purpose only.

### **Features & Benefits**

- maxiFLOW<sup>™</sup> 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 ٠
- Designed for low profile components from 1.5 to 2.99mm .
- "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	2.62 °C/W	2.12 °C/W	1.84 °C/W	1.65 °C/W	1.52 °C/W	1.41 °C/W	1.33 °C/W
	Ducted Flow	2.02	n/a	n/a	n/a	n/a	n/a	n/a

## **Product Detail**

Schematic Image	Dimension A	Dimension B	Dimension C	Dimension D	ТІМ	Finish			
	33.0 mm	33.0 mm	19.5 mm	58.2 mm	T766	BLACK- ANODIZED			
	<ul> <li>Notes:</li> <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-51330R-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> </ul>								
<ul> <li>ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.</li> <li>Optional maxiGRIP<sup>TM</sup> Installation/Removal Tool Set P/N: MGT330</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 or www.qats.com.



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