

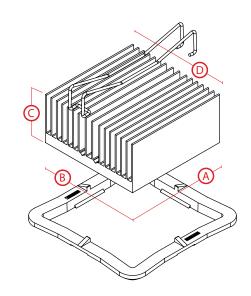
## High Performance BGA Cooling Solutions w/ maxiGRIP™ Attachment

### ATS PART # ATS-53330R-C2-R0

#### **Features & Benefits**

- » High aspect ratio, straight fin heat sinks that are ideal for compact PCB environments
- » maxiGRIP™ attachment applies steady, even pressure to the component and does not require holes in the PCB
- » Designed specifically for BGAs and other surface mount packages
- » Meets Telcordia GR-63-Core Office Vibration; ETSI 300 019 Transportation Vibration; and MIL-STD-810 Shock Testing and Unpackaged Drop Testing standards
- » Comes preassembled with high performance, phase changing, thermal interface material

**Thermal Performance** 





\*Image above is for illustration purposes only.

AIR VELOCITY		THERMAL RESISTANCE		
FT/MIN	M/S	°C/W (UNDUCTED FLOW)	°C/W (DUCTED FLOW)	
200	1.0	4.1	2.3	
300	1.5	3		
400	2.0	2.6		
500	2.5	2.3		
600	3.0	2.1		
700	3.5	2		
800	4.0	1.8		

#### **Product Details**

DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	INTERFACE MATERIAL	FINISH
33 mm	33 mm	19.5 mm	33 mm	SAINT-GOBAIN C1100F	BLACK-ANODIZED

#### NOTES:

- 1) Dimension C = heat sink height from bottom of the base to the top of the fin field.
- ATS-53330R-C1-R0 is a subsitute item available utilizing an equivalent phase change material (Chomerics T766).
- Thermal beformance data are provided for reference only. Actual performance may vary
- by application.
  ATS reserves the right to update or change its products without notice to improve the design or performance.
- 5) Optional maxiGRIP™ Installation/Removal Tool Set P/N: MGT330
- 6) Contact ATS to learn about custom options available.



# For more information, to find a distributor or to place an order, visit www.qats.com or call: 781.769.2800 (North America); +31 (0) 3569 84715 (Europe).