



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

**ATS PART # ATS-50190P-C2-R0**

## 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 preassembled with high performance, phase changing, thermal interface material
- » Designed for standard height components from 3 to 4.5mm



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

## Thermal Performance

AIR VELOCITY		THERMAL RESISTANCE	
FT/MIN	M/S	°C/W (UNDUCTED FLOW)	°C/W (DUCTED FLOW)
200	1.0	7.7	6.4
300	1.5	6.3	
400	2.0	5.6	
500	2.5	5	
600	3.0	4.6	
700	3.5	4.3	
800	4.0	4	

## Product Details

DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	INTERFACE MATERIAL	FINISH
19 mm	19 mm	17.5 mm	34.7 mm	SAINT-GOBAIN C1100F	BLUE-ANODIZED

### NOTES:

- 1) Dimension C = heat sink height from bottom of the base to the top of the fin field.
- 2) ATS-50190P-C1-R0 is a substitute item available utilizing an equivalent phase change material (Chomerics T766).
- 3) Thermal performance data are provided for reference only. Actual performance may vary by application.
- 4) 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: MGT190
- 6) Contact ATS to learn about custom options available.



**ATS** ADVANCED THERMAL SOLUTIONS, INC.  
Innovations in Thermal Management®

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

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [advanced thermal solutions manufacturer](#):*

Other Similar products are found below :

[ATS-52300B-C2-R0](#) [MGT270](#) [CS-12SHSS-A](#) [ATS-HP-F5L100S30W-031](#) [CS-95SHS-A](#) [TLC-100-DIST](#) [PTM-1000-030](#) [ATS-FM-66](#)  
[tvLYT](#) [ATVS-2020-8](#) [eATVS-4](#) [MGT350](#) [MGT310](#) [ATS-58000-C1-R0](#) [eATVS-8](#) [ATS-EXL70-300-R0](#) [ATS-X50425G-C1-R0](#) [ATS-](#)  
[EXL105-300-R0](#) [ATS-EXL100-300-R0](#) [ATS-TMDK-96](#) [ATS-CP-1003](#) [ATS-EXL62-1220-R0](#) [ATS-EXL60-1220-R0](#) [CS-9S6SS-A](#) [ATS-](#)  
[EXL63-300-R0](#) [ATS-TCP-1002](#) [MGT290](#) [ATS-EXL110-1220-R0](#) [ATS-EXL105-1220-R0](#) [ATS-EXL2-254-R0](#) [ATS-EXL312-300-R0](#) [ATS-](#)  
[EXL113-300-R0](#) [ATS-EXL119-300-R0](#) [ATS-TCP-1000](#) [MIC 1000-20](#) [ATS-EXL103-300-R0](#) [ATS-1039-C3-R0](#) [ATS-EXL100-1220-R0](#)  
[ATS-EXL75-1220-R0](#) [ATS-EXL66-1220-R0](#) [ATS-FM-22](#) [MGT450](#) [ATS-EXL58-1220-R0](#) [ATS-EXL65-1220-R0](#) [ATS-EXL99-1220-R0](#)  
[MGT425](#) [ATS-1040-C1-R0](#) [ATS-54325R-C1-R0](#) [MGT400](#) [ATSEU-077D-C1-R0](#)