



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

**ATS PART # ATS-51210D-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 low profile components from 1.5 to 2.99mm



*\*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 | 12                   | 8                  |
| 300    | 1.5 | 9.7                  |                    |
| 400    | 2.0 | 8.3                  |                    |
| 500    | 2.5 | 7.5                  |                    |
| 600    | 3.0 | 6.8                  |                    |
| 700    | 3.5 | 6.3                  |                    |
| 800    | 4.0 | 5.9                  |                    |

## Product Details

| DIMENSION A | DIMENSION B | DIMENSION C | DIMENSION D | INTERFACE MATERIAL  | FINISH          |
|-------------|-------------|-------------|-------------|---------------------|-----------------|
| 21 mm       | 21 mm       | 9.5 mm      | 34.6 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.
- 2) ATS-51210D-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: MGT210
- 6) Contact ATS to learn about custom options available.



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