

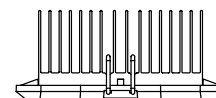
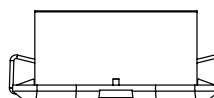
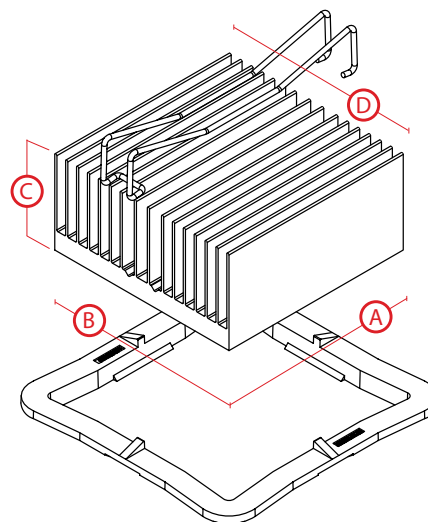


# High Performance BGA Cooling Solutions w/ maxiGRIP™ Attachment

**ATS PART # ATS-53330D-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



*\*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 | 11.1                 | 5                  |
| 300          | 1.5 | 8.1                  |                    |
| 400          | 2.0 | 6.8                  |                    |
| 500          | 2.5 | 6                    |                    |
| 600          | 3.0 | 5.4                  |                    |
| 700          | 3.5 | 5                    |                    |
| 800          | 4.0 | 4.7                  |                    |

## Product Details

| DIMENSION A | DIMENSION B | DIMENSION C | DIMENSION D | INTERFACE MATERIAL  | FINISH         |
|-------------|-------------|-------------|-------------|---------------------|----------------|
| 33 mm       | 33 mm       | 9.5 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.
- 2) ATS-53330D-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: MGT330
- 6) Contact ATS to learn about custom options available.



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