

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

**DIGI-KEY PART # ATS1170-ND**

ATS PART # ATS-53300K-C2-R0

## Features & Benefits

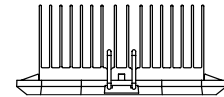
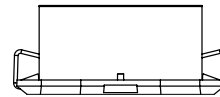
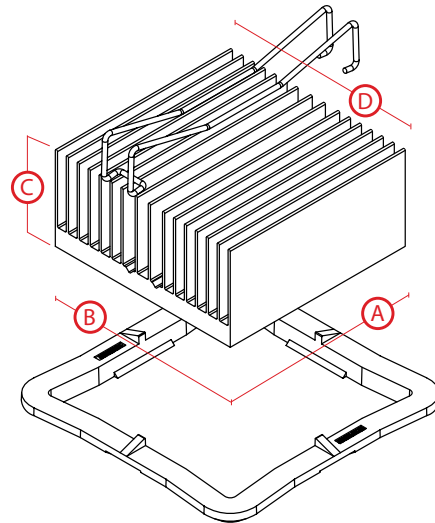
High aspect ratio, straight fin heat sinks that are ideal for compact PCB environments

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 Table

| AIR VELOCITY |     | THERMAL RESISTANCE |               |
|--------------|-----|--------------------|---------------|
| FT/MIN       | M/S | °C/W (UNDUCTED)    | °C/W (DUCTED) |
| 200          | 1.0 | 6.9                | 4.3           |
| 300          | 1.5 | 5.5                |               |
| 400          | 2.0 | 4.8                |               |
| 500          | 2.5 | 4.3                |               |
| 600          | 3.0 | 3.9                |               |
| 700          | 3.5 | 3.6                |               |
| 800          | 4.0 | 3.4                |               |

## Product Details†

| DIMENSION A | DIMENSION B | DIMENSION C§ | DIMENSION D | TIM‡   | FINISH         |
|-------------|-------------|--------------|-------------|--------|----------------|
| 30          | 30          | 14.5         | N/A         | C1100F | BLACK-ANODIZED |

For further technical information, please contact Advanced Thermal Solutions, Inc. at **1-781-769-2800** or **www.qats.com**

\* RoHS Compliant

‡ TIM = Thermal Interface Material

† Dimensions are measured in millimeters

♦ Dimensions A & B refer to component size

§ Dimension C = the height of the heat sink shown above and does not include the height of the attachment method



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