# BGA Heat Sink - High Performance Device Specific - NXP

*Image above is for illustration purpose only.*

ATS Part#: **ATS-59001-C1-R0**

Description: 28.00 x 45.00 x 11.00 mm BGA Heat Sink - High Performance Device Specific - NXP

Heat Sink Type: NXP

Heat Sink Attachment: maxiGRIP

Equivalent Part Number: ATS-59001-C2-R0 Discontinued

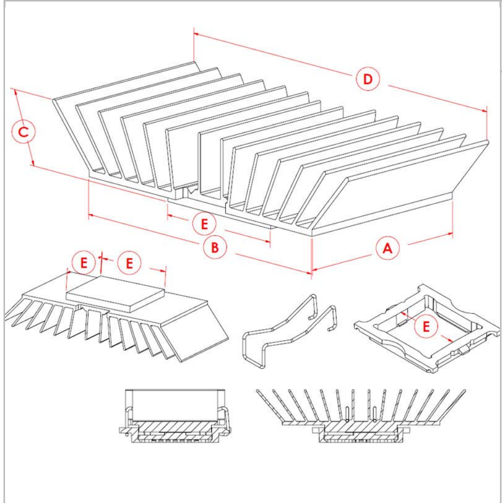
## Features & Benefits

- Designed for flip-chip processors such as NXP MPCs
- **maxiGRIP™** attachment applies steady, even pressure to the component and does not require holes in the PCB
- Comes preassembled with high performance, phase changing, thermal interface material

## Thermal Performance

| AIR VELOCITY | | @200 LFM<br>1.0 M/S | @300 LFM<br>1.5 M/S | @400 LFM<br>2.0 M/S | @500 LFM<br>2.5 M/S | @600 LFM<br>3.0 M/S | @700 LFM<br>3.5 M/S | @800 LFM<br>4.0 M/S |
|---|---|---|---|---|---|---|---|---|
| THERMAL RESISTANCE | Unducted Flow | 4.5 °C/W | 3.6 °C/W | 3.2 °C/W | 2.9 °C/W | 2.7 °C/W | 2.5 °C/W | 2.4 °C/W |
| | Ducted Flow | 3 | N/A | N/A | N/A | N/A | N/A | N/A |

## Product Detail

| Schematic Image | Dimension A | Dimension B | Dimension C | Dimension D | TIM | Finish |
|---|---|---|---|---|---|---|
| <br> <br>*Image above is for illustration purpose only.* | 28.00 mm | 45.00 mm | 11.00 mm | 59 mm | T766 | BLACK-ANODIZED |

### Notes:

- Dimension A and B refer to component size.
- Dimension C is the heat sink height from the bottom of the base to the top of the fin field.
- ATS-59001-C2-R0 is the exact heat sink assembly with an equivalent thermal interface material (Saint Gobain C1100F). NOTE: Saint Gobain C1100F is discontinued effective 12/31/10.
- Thermal performance 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.
- ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.
- Optional **maxiGRIP™** Installation/Removal Tool Set P/N: **MGT170**
- Contact ATS to learn about custom options available.

For more information, to find a distributor or to place an order, please contact us at
781-769-2800 (North America), **sales@qats.com** or **www.qats.com**.