

# BGA Heat Sink - High Performance fanSINK™ with maxiGRIP™ Attachment



|                                |  |
|--------------------------------|--|
| <b>ATS Part#:</b>              | <b>ATS-61400W-C2-R0</b>  |
| <b>Description:</b>            | 40.00 x 40.00 x 24.50 mm BGA Heat Sink - High Performance fanSINK™ with maxiGRIP™ Attachment |
| <b>Heat Sink Type:</b>         | fanSINK  |
| <b>Heat Sink Attachment:</b>   | maxiGRIP   |
| <b>Equivalent Part Number:</b> | N/A  |

## Features & Benefits

- » X-Cut straightFIN heatsink fins offer omnidirectional air flow for optimum thermal performance independent of PCB lay-out
- » Stainless steel screw fan attachment ensures dependable long-term fan to heat sink assembly. 4-40 thread screws are supplied in 2 lengths (1", 1 1/8"). Contact ATS for custom options.
- » Product hole pattern is 20 mm C-C (center to center)
- » Component Attachment: ATS maxiGRIP™ is a proven high reliability mechanical attachment system
- » Meets Telecordia GR-63-Core Office Vibration; ETSI 300 019 Transportation Vibration; and MIL-STD-810 Shock Testing and Unpackaged Drop Testing Standards
- » maxiGRIP™ hardware includes a high performance plastic frame clip and 300 Series stainless steel spring clip-avoiding PCB through holes
- » Provided with pre-assembled Thermal Interface Material (TIM) centered on base
- » "Keep-Out" Requirements: An "Un-Populated" boarder zone of 5mm around the component is necessary to facilitate the installation/removal of the maxiGRIP™. Please refer to the maxiGRIP™ Keep-Out Guidelines and Installation/Removal Instructions for further details

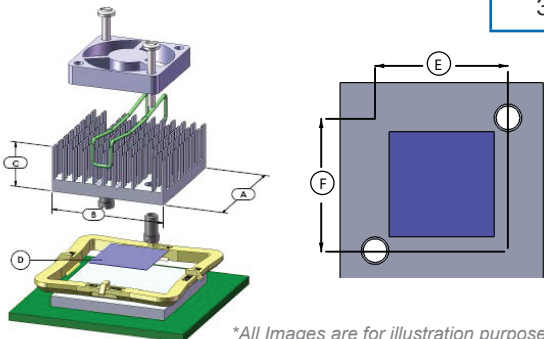
## Thermal Performance

| 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 | 1.30                | N/A                 | N/A                 | N/A                 | N/A                 | N/A                 | N/A                 |
|                    | Ducted Flow   | 0.00                | N/A                 | N/A                 | N/A                 | N/A                 | N/A                 | N/A                 |

## Suggested Fan (Not Included)

| Manufacturer | Part #              | Voltage | Dimensions (mm)<br>L x H x W | Airflow               |
|--------------|---------------------|---------|------------------------------|-----------------------|
| Sunon        | MF40100V1-1000U-A99 | 5VDC    | 40 x 40 x 10                 | 8.0 CFM (0.224m³/min) |
| Sunon        | MF40101V1-1000U-A99 | 12VDC   | 40 x 40 x 10                 | 8.0 CFM (0.224m³/min) |

## Product Details

| SCHEMATIC IMAGE  | Dimension A | Dimension B | Dimension C | Dimension D | TIM            | Finish |
|--|-------------|-------------|-------------|-------------|----------------|--------|
|  | 39.25       | 39.25       | 24.5        | 27          | Chomerics T412 | Black  |

### NOTES:

- 1) Fan not included. Fan type is specific to individual customer requirements and needs to be independently sourced.
- 2) Dimension A and B refer to component size.
- 3) Dimension C is the heat sink height from the bottom of the base to the top of the fin field.
- 4) Thermal performance data are provided for reference only. Actual performance may vary by application.
- 5) ATS reserves the right to update or change its products without notice to improve the design or performance.
- 6) ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.
- 7) Contact ATS to learn about custom options available.

\*All Images are for illustration purposes only.

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