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





ATS Part#: ATS-51400R-C1-R0

Description: maxiFLOWTM maxiGRIPTM HS Assembly- LP, T412, BLACK- ANODIZED

Heat Sink Type: maxiFLOW
Heat Sink Attachment: maxiGRIP

Equivalent Part Number: ATS-51400R-C2-R0

\*Image above is for illustration purpose only.

## **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 pre-assembled with high performance thermal interface material
- Designed for low profile components from 1.5 to 2.99mm
- "Keep-Out" Requirements: An "Un-Populated" border 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 maxiGRIP™ 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 | 1.97 °C/W           | 1.57 °C/W           | 1.36 °C/W           | 1.23 °C/W           | 1.13 °C/W           | 1.05 °C/W           | 0.98 °C/W           |
|                    | Ducted Flow   | 1.51                | n/a                 | n/a                 | n/a                 | n/a                 | n/a                 | n/a                 |

## **Product Detail**



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.

