# BGA Heat Sink - High Performance maxiFLOW/superGRIP-Low-Profile



#### ATS Part#:

Description:

#### ATS-X51330K-C1-R0

escription:

33.00 x 33.00 x 14.50 mm BGA Heat Sink - High Performance maxiFLOW/superGRIP-Low-Profile

 Heat Sink Type:
 maxiFLOW

 Heat Sink Attachment:
 superGRIP

 Equivalent Part Number:
 N/A

\*Image above is for illustration purpose only.

### **Features & Benefits**

- · Requires minimal space around the component's perimeter; ideal for densely populated PCBs
- Allows the heat sink to be detached and reattached without damaging the component or the PCB, an important feature in the event a PCB may need to be reworked
- Strong, uniform attachment force helps achieve maximum performance from phase-change TIMs
- Eliminates the need to drill mounting holes in the PCB
- Assembly comes standard with a high performance maxiFLOW<sup>™</sup> heat sink, which maximizes convection (air) cooling. Please refer to the superGRIP<sup>™</sup> Keep-Out Guidelines and superGRIP<sup>™</sup> Installation/Removal Guide for further details
- Comes standard with clean break, reworkable, Chomerics T-766 phase change material
- Designed for standard height components, from 1.5 to 2.9 mm

## **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 | 3.4 °C/W            | 2.7 °C/W            | 2.4 °C/W            | 2.1 °C/W            | 1.9 °C/W            | 1.8 °C/W            | 1.7 °C/W            |
|                    | Ducted Flow   | 2.6                 | N/A                 | N/A                 | N/A                 | N/A                 | N/A                 | N/A                 |

## **Product Detail**

| Schematic Image                               | Dimension A  | Dimension B            | Dimension C  | Dimension D  | тім                    | Finish        |
|---|--|------------------------|--|--|------------------------|---------------|
| An an   | 33.00 mm   | 33.00 mm               | 14.50 mm   | 58.16 mm   | T766                   | Blue Anodized |
| Image above is for illustration purpose only. | <ul> <li>Dimension</li> <li>Thermal per application</li> <li>ATS reserve performance</li> <li>ATS certifies</li> </ul> | es the right to update | ght from the bottom c<br>rovided for reference<br>or change its produc<br>assembly is RoHS-6 a | only. Actual performation only. Actual performation of the second | ance may<br>nprove the | vary by       |

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.



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