# High Performance BGA Cooling Solutions w/ Thermal Tape Attachment





ATS Part#: ATS-54425R-C1-R0

Description: High Performance Extrusion, T412, BLACK-ANODIZED

Heat Sink Type: Straight Fin

Heat Sink Attachment: THERMAL TAPE

Equivalent Part Number: ATS-54425R-C2-R0

\*Image above is for illustration purpose only.

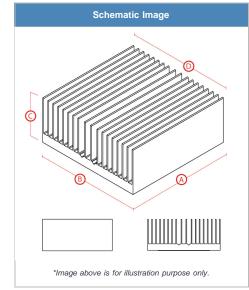
## **Features & Benefits**

- · High aspect ratio, straight fin heat sinks that are ideal for compact PCB environments
- Designed specifically for BGAs and other surface mount packages
- · Comes pre-assembled with high performance 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 | 2.98 °C/W           | 2.20 °C/W           | 1.85 °C/W           | 1.64 °C/W           | 1.50 °C/W           | 1.39 °C/W           | 1.31 °C/W           |
|                    | Ducted Flow   | 1.67                | n/a                 | n/a                 | n/a                 | n/a                 | n/a                 | n/a                 |

### **Product Detail**



| Dimension A | Dimension B | Dimension C | Dimension D | TIM  | Finish         |
|-------------|-------------|-------------|-------------|------|----------------|
| 42.5 mm     | 42.5 mm     | 19.5 mm     | mm          | T412 | 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-54425R-C2-R0 is the exact heat sink assembly with an equivalent thermal interface material (Saint Gobain C675).
- 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.
- Contact ATS to learn about custom options available.

