BGA Heat Sink (High Aspect Ratio Ext.) Custom Pin Fin

*Image above is for illustration purpose only.

ATS Part#:	**ATS045045012-PF-15K**
Description:	45.00 x 45.00 x 12.00 mm BGA Heat Sink (High Aspect Ratio Ext.) Custom Pin Fin
Heat Sink Type:	Custom Pin Fin
Heat Sink Attachment:	N/A
Equivalent Part Number:	N/A

Features & Benefits

- High efficiency pin fin design provides low pressure drop characteristics
- Large surface area increases heat sink performance
- Fabricated from extruded aluminum, which minimizes thermal resistance from the base to the fins, reduces weight and keeps costs low
- Comes standard without interface material or with most common pressure sensitive thermal tapes as a custom option

Thermal Performance

AIR VELOCITY		@200 LFM 1.0 M/S	@300 LFM 1.5 M/S	@400 LFM 2.0 M/S	@500 LFM 2.5 M/S	@600 LFM 3.0 M/S	@700 LFM 3.5 M/S	@800 LFM 4.0 M/S
THERMAL RESISTANCE	Unducted Flow	4.63 °C/W	3.1 °C/W	2.5 °C/W	2.1 °C/W	1.9 °C/W	1.8 °C/W	1.6 °C/W
	Ducted Flow	2.1	1.8	1.6	1.4	1.3	1.2	1.2

Product Detail

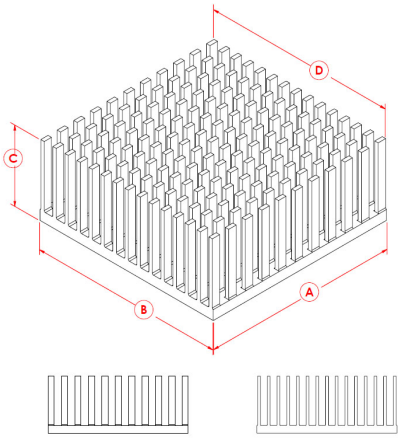
Schematic Image	Dimension A	Dimension B	Dimension C	Dimension D	TIM	Finish
	45.00 mm	45.00 mm	12.00 mm	45 mm	N/A	BLACK-ANODIZED

*Image above is for illustration purpose only.

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.
- Dimension D is fin tip to fin tip.
- 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.

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.

© 2013 Advanced Thermal Solutions, Inc. | 89-27 Access Road | Norwood MA | 02062 | USA

ATS ADVANCED THERMAL SOLUTIONS, INC.
Innovations in Thermal Management®

Rev - 050413