



63.0 x 63.0 x 9.5 mm BGA Heat Sink - High Performance fanSINK™ with maxiGRIP™ Attachment

ATS Part#:	ATS-61600D-C1-R0
Description:	63.00 x 63.00 x 9.50 mm BGA Heat Sink High Performance fanSINK™ with Push Pin Attachment
Component Specific:	N/A
Heat Sink Type:	fanSINK
Heat Sink Attachment:	Push Pin
Installation Guide:	N/A
Thermal Performance:	See detail
Mechanical Drawing:	See detail



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»Cross-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: Modes D-R in 4 lengths (1/2", 3/4", 7/8", 1"). Model W in 2 lengths (1", 1 1/8"). Contact ATS for custom options available..

» Fan assembly hole pattern is 40 mm C-C (center to center) - see Figure 1

» Screw PEM push pin attachment included

» Provided with pre-assembled Thermal Interface Material (TIM) centered on base.

» Recommended through hole size in PCB is 3.00 mm

» Please Note: FANS NOT INCLUDED. Fan type is specific to each customer application. Fans need to be sourced independently.

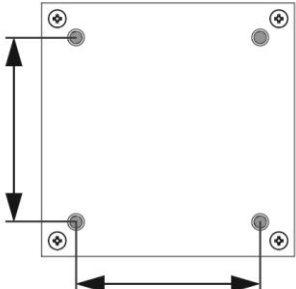


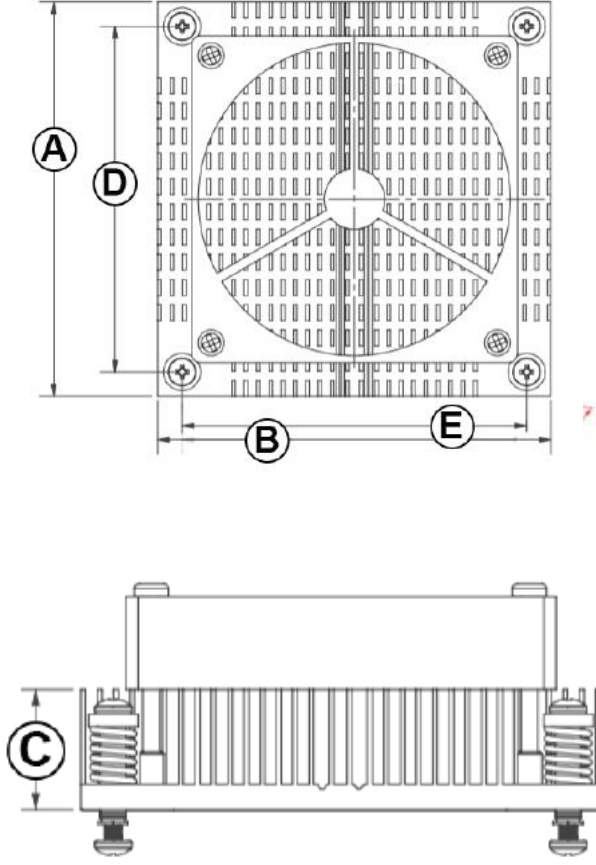
Figure 1

Heat Sink Part No	L (mm)	W (mm)	H (mm)	Fan Sink Thermal Resistance (°C/W)			
ATS-61600D-C1-R0	63.0	63.0	9.5	1.20	1.14	1.06	1.06
ATS-61600K-C1-R0	63.0	63.0	14.5	0.73	0.83	0.69	0.67
ATS-61600R-C1-R0	63.0	63.0	19.5	0.60	0.65	0.52	0.56
ATS-61600W-C1-R0	63.0	63.0	24.5	0.50	0.54	0.47	0.49
FAN MANUFACTURER				Delta	Sunon	Delta	Sunon
FAN PART NO.				EFB0512HHA-R00	MF50101V1-10000-A99	AUC0512DB-AF00	MF50151VX-1000U-F99
FAN SIZE (mm)				50 X 50 X 10	50 X 50 X 10	50 X 50 X 15	50 X 50 X 15

Product Details

Part Number	Length (A) (mm)	Width (B) (mm)	Height (C) (mm)	Fan Assembly Hole Pattern Center to Center (D) (E) (mm)	TIM	Finish	Data Sheet	RoHS & REACH
ATS-61600D-C1-R0	63.0	63.0	9.5	54.0	Chomerics T412	Black		

Thermal Performance

Schematic Image	AIR VELOCITY		THERMAL RESISTANCE	
	FT/MIN	M/S	°C/W Unducted Flow	°C/W Ducted Flow
	100	0.5	N/A	N/A
	200	1.0	N/A	N/A
	300	1.5	N/A	N/A
	400	2.0	N/A	N/A
	500	2.5	N/A	N/A
	600	3.0	N/A	N/A
	700	3.5	N/A	N/A
	800	4.0	N/A	N/A


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ATS Part#:**ATS-61600K-C1-R0**

Description:63.00 x 63.00 x 14.50 mm BGA Heat Sink
High Performance fanSINK™ with Push Pin Attachment

Component Specific:N/A





Heat Sink Type:fanSINK

Heat Sink Attachment:Push Pin

Installation Guide:N/A

Thermal Performance:See detail

Mechanical Drawing:See detail

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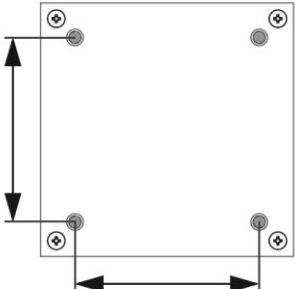





Figure 1

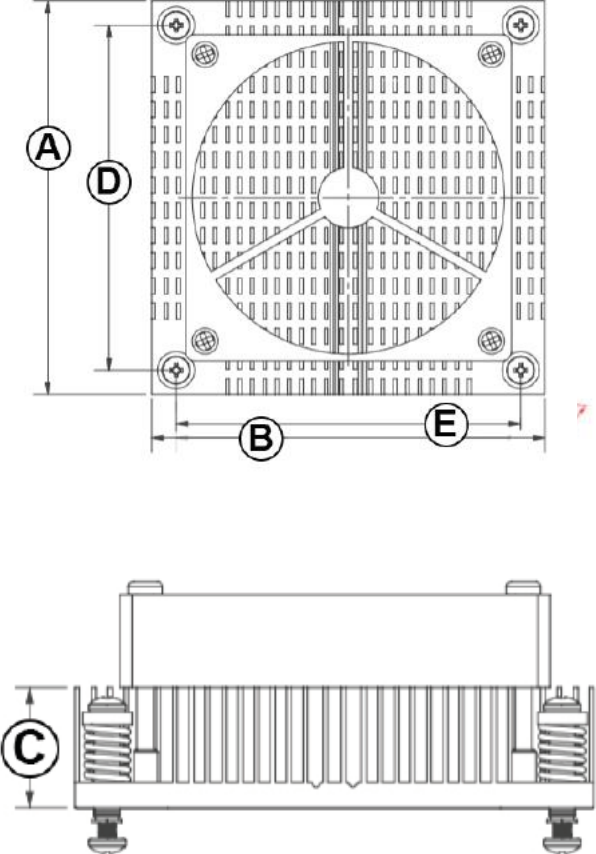
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ApplicationNotesThermal PerformanceTechnical Data

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	600	3.0	N/A	N/A
	700	3.5	N/A	N/A
	800	4.0	N/A	N/A

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ATS Part#:

ATS-61600R-C1-R0

Description:

63.00 x 63.00 x 19.50 mm BGA Heat Sink
High Performance fanSINK™ with Push Pin Attachment

Component Specific:

N/A

Heat Sink Type:

fanSINK

Heat Sink Attachment:

Push Pin

Installation Guide:

N/A

Thermal Performance:

See detail

Mechanical Drawing:

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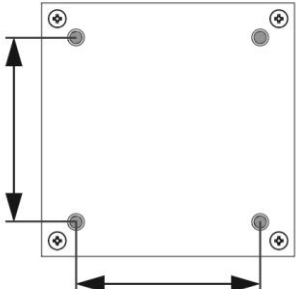


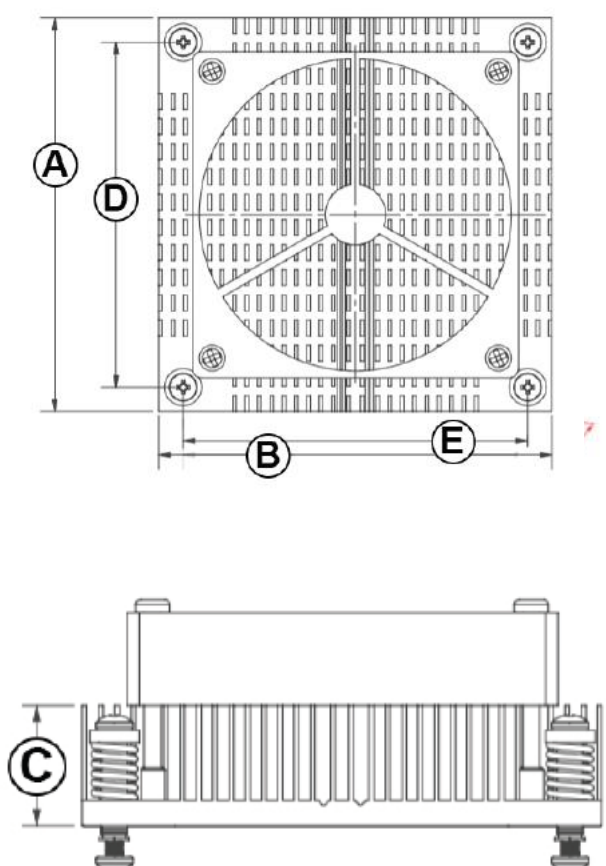
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ATS-61600W-C1-R0

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63.00 x 63.00 x 24.50 mm BGA Heat Sink
High Performance fanSINK™ with Push Pin Attachment

Component Specific:

N/A

Heat Sink Type:

fanSINK

Heat Sink Attachment:

Push Pin

Installation Guide:

N/A

Thermal Performance:

See detail

Mechanical Drawing:

See detail

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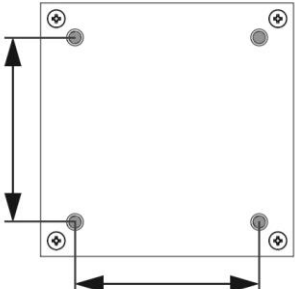




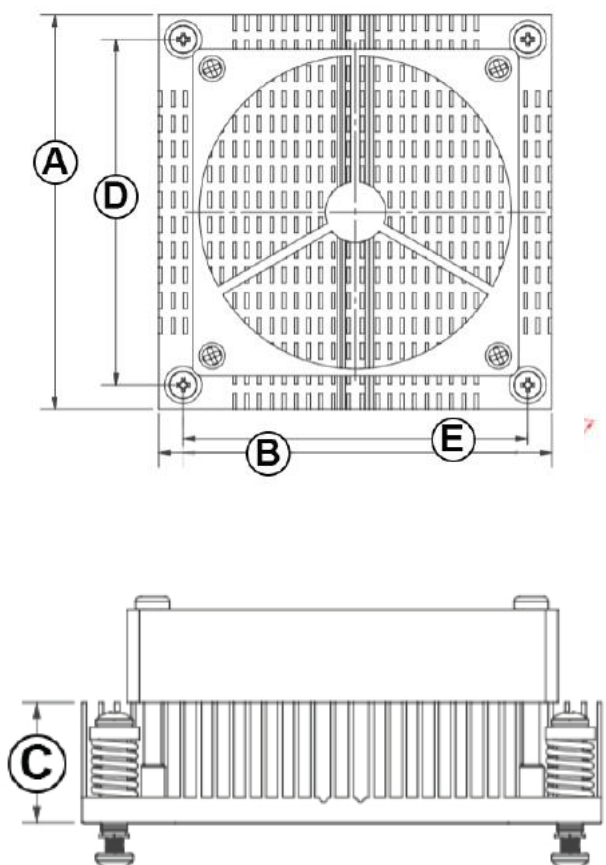
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