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53.0 x 53.0 x 9.5 mm BGA Heat Sink - High Performance fanSINK™ with maxiGRIP™ Attachment

ATS Part#: ATS-61500D-C1-R0

Description: 53.00 x 53.00 x 9.50 mm BGA Heat Sink High Performance fanSINK™ with Push Pin Attachment

fanSINK

See detail

Component Specific:

Heat Sink Attachment: **Push Pin** Installation Guide: N/A

Heat Sink Type:

Thermal Performance:

Mechanical Drawing: See detail

»Cross-Cut straightFIN heatsink fins offer omnidirectional air flow for optimum thermal performance independent of •

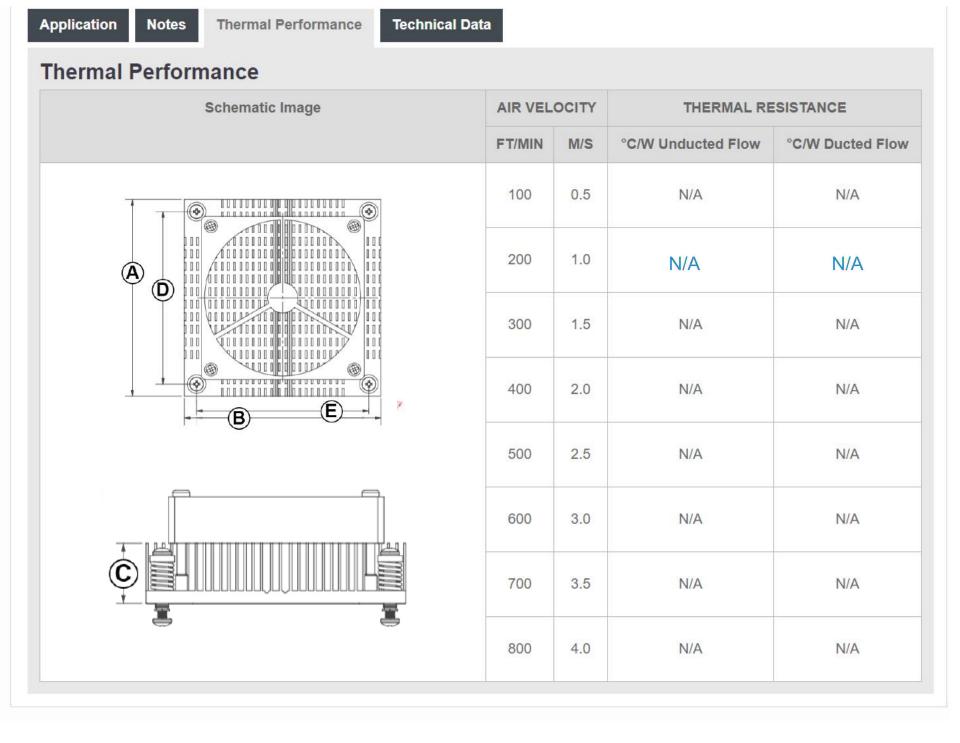


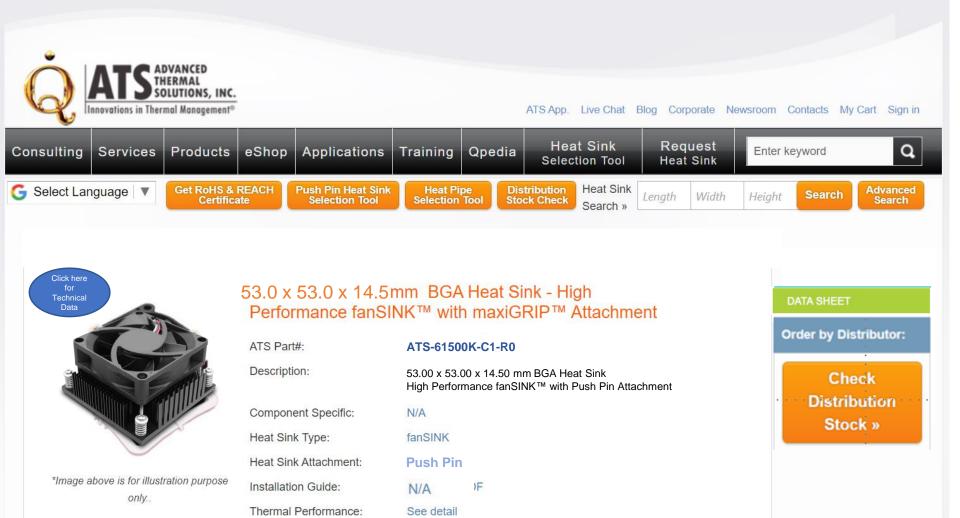
- PCB lay-out,
- » Stainless steel screw fan attachment ensures dependable long-term fan to heat sink assembly. 4-40 thread screws are supplied: Modes D-R in 4 lengths (1/2", 3/4", 7/8", 1"). Model W in 2 lengths (1", 1 1/8"). Contact ATS for custom options available..
- » Fan assembly hole pattern is 32 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.

Heat Sink Part No	L (mm)	W (mm)	H (mm)	Fan Sink Thermal Resistance (°C/W)					
ATS-61500D-C1-R0	53.0	53.0	9.5	1.80	1.80	1.35	1.35		
ATS-61500K-C1-R0	53.0	53.0	14.5	1.09	1.10	0.90	0.89		
ATS-61500R-C1-R0	53.0	53.0	19.5	0.82	0.82	0.67	0.65		
ATS-61500W-C1-R0	53.0	53.0	24.5	0.66	0.67	0.56	0.56		
F	AN MAN	UFACT	URER	Delta	Sunon	Delta	San Ace		
FAN PART NO.				AFB0412VHA-AF00	MF40101VX- 10000-A99	AFB0612VHB-F00	9GA0412P7G001		
	FA	N SIZE	E (mm)	40 X 40 X 10	40 X 40 X 10	40 X 40 X 15	40 X 40 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-61500D-C1-R0	53.0	53.0	9.5	44.0	Chomerics T412	Black	L	REACH R. H.S. COMPLIANT





»Cross-Cut straightFIN heatsink fins offer omnidirectional air flow for optimum thermal performance independent of PCB lay-out,

See detail

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Figure 1

- » 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..
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Mechanical Drawing:

- » Recommended through hole size in PCB is 3.00 mm $\,$
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F	AN MAN	UFACT	URER	Delta	Sunon	Delta	San Ace	
	F	AN PAF	RT NO.	AFB0412VHA-AF00	MF40101VX- 10000-A99	AFB0612VHB-F00	9GA0412P7G001	
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ATS-61500K-C1-R0	53.0	53.0	14.5	44.0 mm	Chomerics T412	Black		REACH RAS COMPLIANT

Schematic Image	AIR VELOCITY		THERMAL RE	SISTANCE
	FT/MIN	M/S	°C/W Unducted Flow	°C/W Ducted Flow
	100	0.5	N/A	N/A
A D 100 100 100 100 100 100 100 100 100 1	200	1.0	N/A	N/A
	300	1.5	N/A	N/A
B E -	400	2.0	N/A	N/A
	500	2.5	N/A	N/A
	600	3.0	N/A	N/A
¢ H	700	3.5	N/A	N/A
	800	4.0	N/A	N/A

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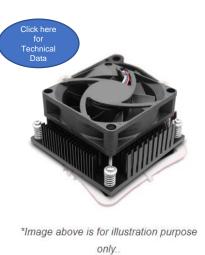
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53.0 x 53.0 x 19.5mm BGA Heat Sink - High Performance fanSINK™ with maxiGRIP™ Attachment

ATS Part#:

Description:

ATS-61500R-C1-R0

Component Specific:

High Performance fanSINK™ with Push Pin Attachment

53.00 x 53.00 x 19.50 mm BGA Heat Sink

fanSINK Heat Sink Type:

Heat Sink Attachment: **Push Pin** Installation Guide: N/A

Thermal Performance: See detail

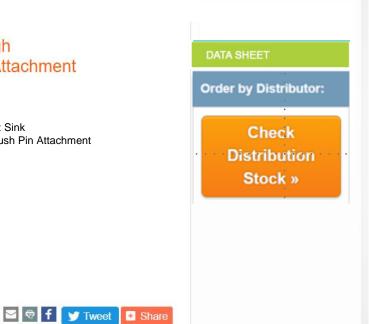
Mechanical Drawing: See detail

»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 in 4 lengths (1/2", 3/4", 7/8", 1"). Contact ATS for custom options available.
- » Fan assembly hole pattern is 32 mm C-C (center to center) see Figure 1

Application Notes Thermal Performance Technical Data

- » Screw PEM push pin attachment included
- » Provided with pre-assembled Thermal Interface Material (TIM) centered on base.
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- » Please Note: FANS NOT INCLUDED. Fan type is specific to each customer application. Fans need to be sourced independently.



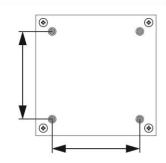


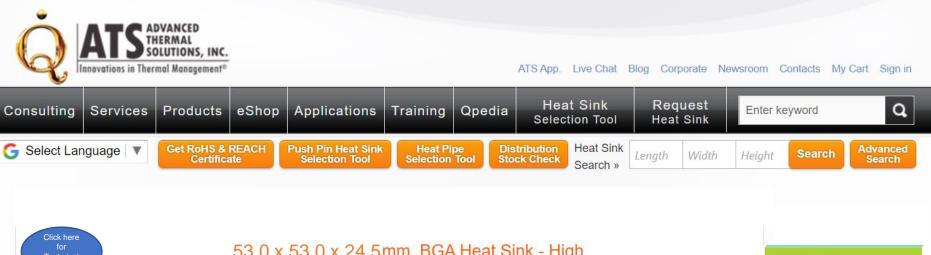
Figure 1

Heat Sink Part No	L (mm)	W (mm)	H (mm)	Fan Sink Thermal Resistance (°C/W)					
ATS-61500D-C1-R0	53.0	53.0	9.5	1.80	1.80	1.35	1.35		
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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
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Schematic Image	AIR VELC		THERMAL RESISTANCE		
	FT/MIN	M/S	°C/W Unducted Flow	°C/W Ducted Flow	
	100	0.5	N/A	N/A	
A D 100 000 000 000 000 000 000 000 000 0	200	1.0	N/A	N/A	
	300	1.5	N/A	N/A	
B E	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	





only..

53.0 x 53.0 x 24.5mm BGA Heat Sink - High Performance fanSINK™ with maxiGRIP™ Attachment

ATS Part#: ATS-61500W-C1-R0

Description: 53.00 x 53.00 x 24.50 mm BGA Heat Sink

High Performance fanSINK™ with Push Pin Attachment

Heat Sink Type: fanSINK
Heat Sink Attachment: Push Pin
Installation Guide: N/A

Component Specific:

Thermal Performance: See detail

Mechanical Drawing: See detail

»Cross-Cut straightFIN heatsink fins offer omnidirectional air flow for optimum thermal performance independent of PCB lay-out.

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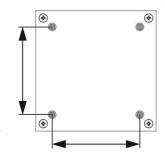


Figure 1

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	FA	N SIZE	E (mm)	40 X 40 X 10	40 X 40 X 10	40 X 40 X 15	40 X 40 X 15		
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Product Details

Application

Notes

Thermal Performance

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-61500K-C1-R0	53.0	53.0	24.5	44.0 mm	Chomerics T412	Black		REACH COMPLIANCE CONTINUES

Technical Data

Schematic Image	AIR VEL	OCITY	THERMAL RESISTANCE		
	FT/MIN	M/S	°C/W Unducted Flow	°C/W Ducted Flow	
	100	0.5	N/A	N/A	
A (1000000000000000000000000000000000000	200	1.0	1.1	0.0	
	300	1.5	N/A	N/A	
B E	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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