pcbCLIP™ - Tape-on PCB Attachment System



ATS Part#: ATS-64190 Series (See specific Part #'s below)

Description: 25.00 x 18.25 DSP Heat Sink in heights of

12.5 mm, 17.5 mm, and 22.0 mm [see PN#'s below]

Max. Component Size: 10.00 x 10.00 x 1.4 mm (minimum height of 1 mm)

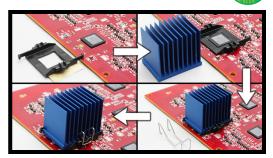
Heat Sink Type: Straight Fin

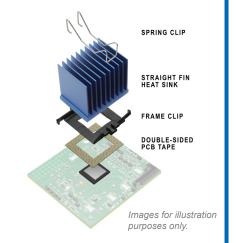
Heat Sink Attachment: Plastic Frame Clip and Stainless Steel Spring Clip

Equivalent Part Number: N/A

Features & Benefits

- » High aspect ratio straight fin heat sink provides enhanced thermal performance to smaller BGA packages.
- » Frame clip is attached to the PCB with 3M double-sided tape and no holes are required on the PCB.
- » Stainless steel spring clip applies steady, even pressure to the component and secures the heat sink.
- » Frame clip (ATS-HK361-R2) is made of PC-ABS plastic blend, providing flame retardant performance.
- » Tape on frame clip assembly kit is supplied with brown release liner. Release liner must be removed prior to installation onto PCB.
- » Heat sink Thermal Interface Material (TIM) is pre-assembled and centered on base.

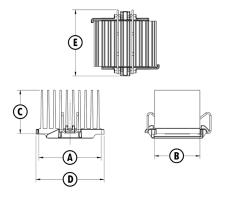




Heat Sink Part Number	L (mm)	W (mm)	H (mm)	Thermal Resistance (°C/W) at 1.0 m/s (200 LFM)	Heat Sink Material	
ATS-64190G-C1-R0	25	18.25	12.5	9.53	Aluminum	
ATS-64190P-C1-R0	25	18.25	17.5	6.67	Aluminum	
ATS-64190T-C1-R0	25	18.25	22	5.42	Aluminum	

Product Details

SCHEMATIC IMAGE	Dimension A	Dimension B	Dimension C	Dimension D	Dimension E	TIM	Finish
	25 mm	18.25 mm	See height chart above	27.40 mm	26.61 mm	Chomerics T766	Blue



MAX COMPONENT HEIGHT <= 1.0mm PLACES NO COMPONENTS NO SOLDER MASK 2X 9 20 10.40 19.00 28.00 22.00 24.00

AIR FLOW DIRECTION

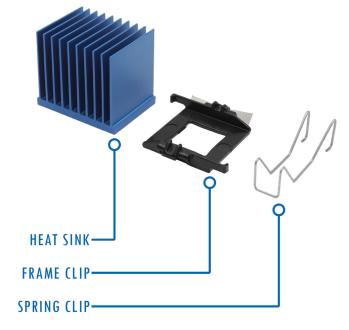
NOTES:

- 1) Dimensions A and B refer to heat sink size.
- 2) Dimension C is the heat sink height from the bottom of the base to the top of the fin field.
- 3) Dimensions D and E refer to the dimensions of the frame clip
- Thermal performance data are provided for reference only. Actual performance may vary by application.
- 5) 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.
- 7) Contact ATS to learn about custom options available.



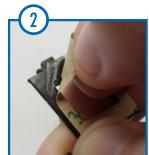
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pcbCLIP™ INSTALLATION GUIDE

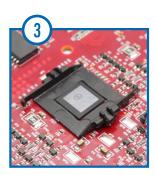




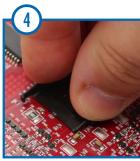
Clean application area on PCB with isopropyl alcohol and let dry before installation.



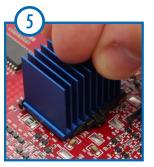
Remove the liner of the adhesive tape on the bottom of the Frame Clip.



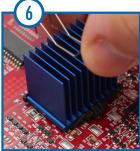
Position the Frame Clip around the component. (Note the direction of air flow when positioning the Frame Clip).



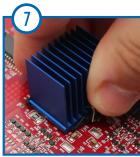
Apply steady pressure to the Frame Clip to secure it to the PCB.



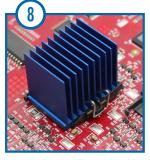
Place the Heat Sink squarely into the frame clip over the component.



Secure the "Open End" of the Spring Clip under the lip of the frame clip.



Press the "Closed End" of the Spring Clip on to the Frame Clip tab.



Inspect the installation. Double check to make sure the Heat Sink is securely attached.

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