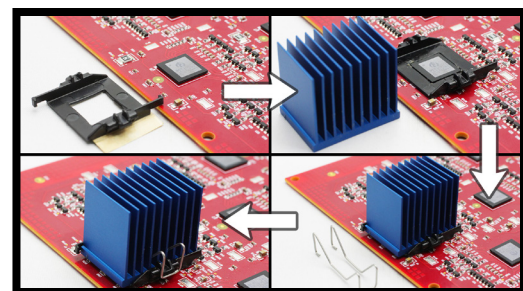


pcbCLIP™ - Tape-on PCB Attachment System

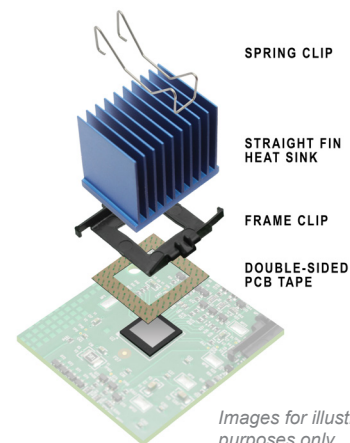


ATS Part#: **ATS-64190 Series** (See specific Part #'s below)
Description: 25.00 x 18.25 DSP Heat Sink in heights of 12.5 mm, 17.5 mm, and 22.0 mm [see PN#'s below]
Max. Component Size: 10.00 x 10.00 x 1.4 mm (minimum height of 1 mm)
Heat Sink Type: Straight Fin
Heat Sink Attachment: Plastic Frame Clip 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.

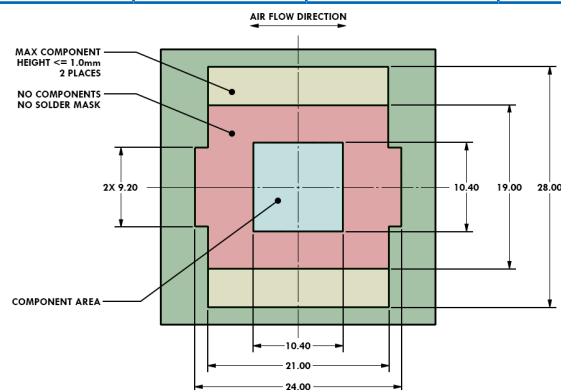
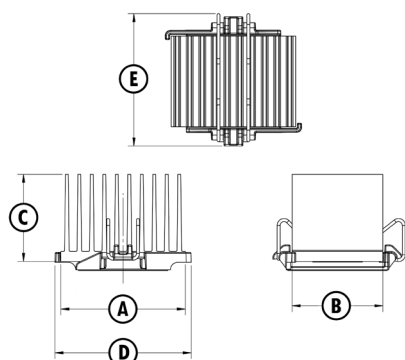


Images for illustration purposes only.

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

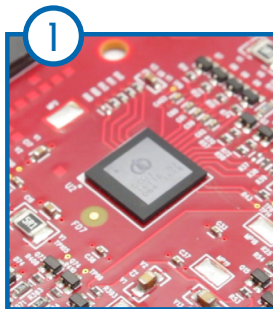
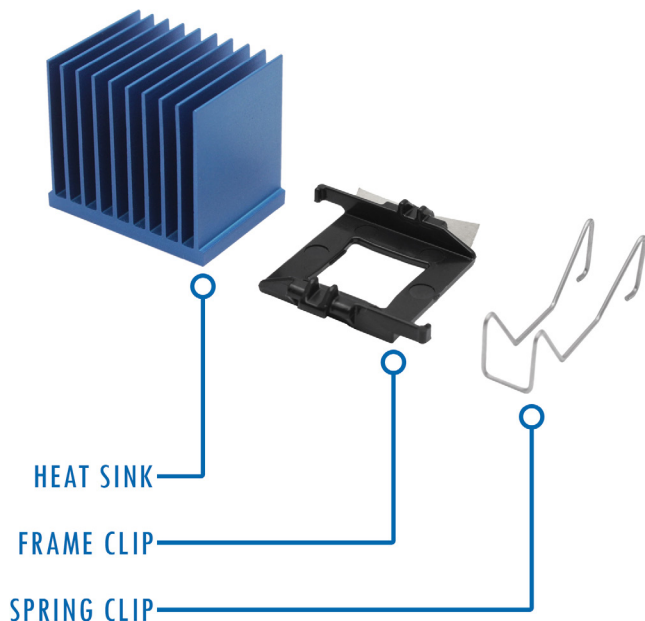
SCHEMATIC IMAGE	Dimension A	Dimension B	Dimension C	Dimension D	Dimension E	TIM	Finish
	25 mm	18.25 mm	See height chart above	27.40 mm	26.61 mm	Chomerics T766	Blue



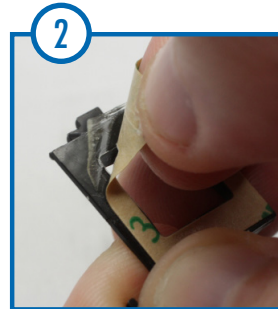
NOTES:

- 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
- 4) 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.
- 6) ATS certifies that this heat sink assembly is RoHS-6 and REACH compliant.
- 7) Contact ATS to learn about custom options available.

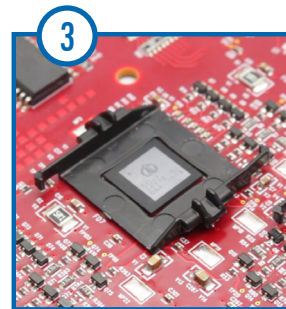
pcbCLIP™ INSTALLATION GUIDE



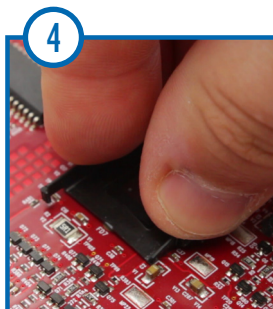
1 Clean application area on PCB with isopropyl alcohol and let dry before installation.



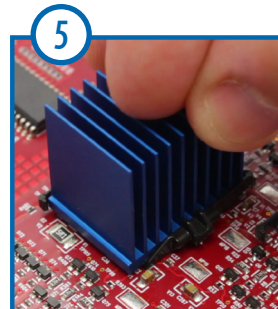
2 Remove the liner of the adhesive tape on the bottom of the Frame Clip.



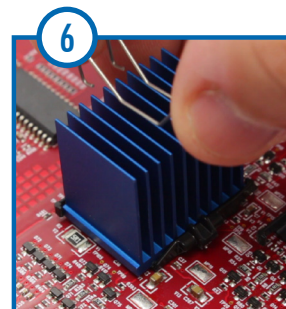
3 Position the Frame Clip around the component. (Note the direction of air flow when positioning the Frame Clip).



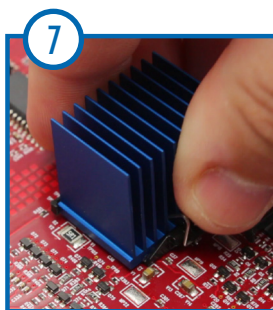
4 Apply steady pressure to the Frame Clip to secure it to the PCB.



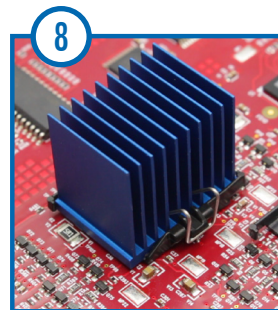
5 Place the Heat Sink squarely into the frame clip over the component.



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



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



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

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