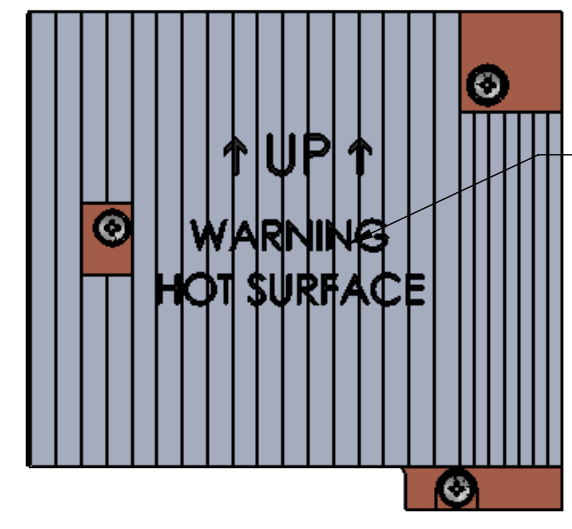
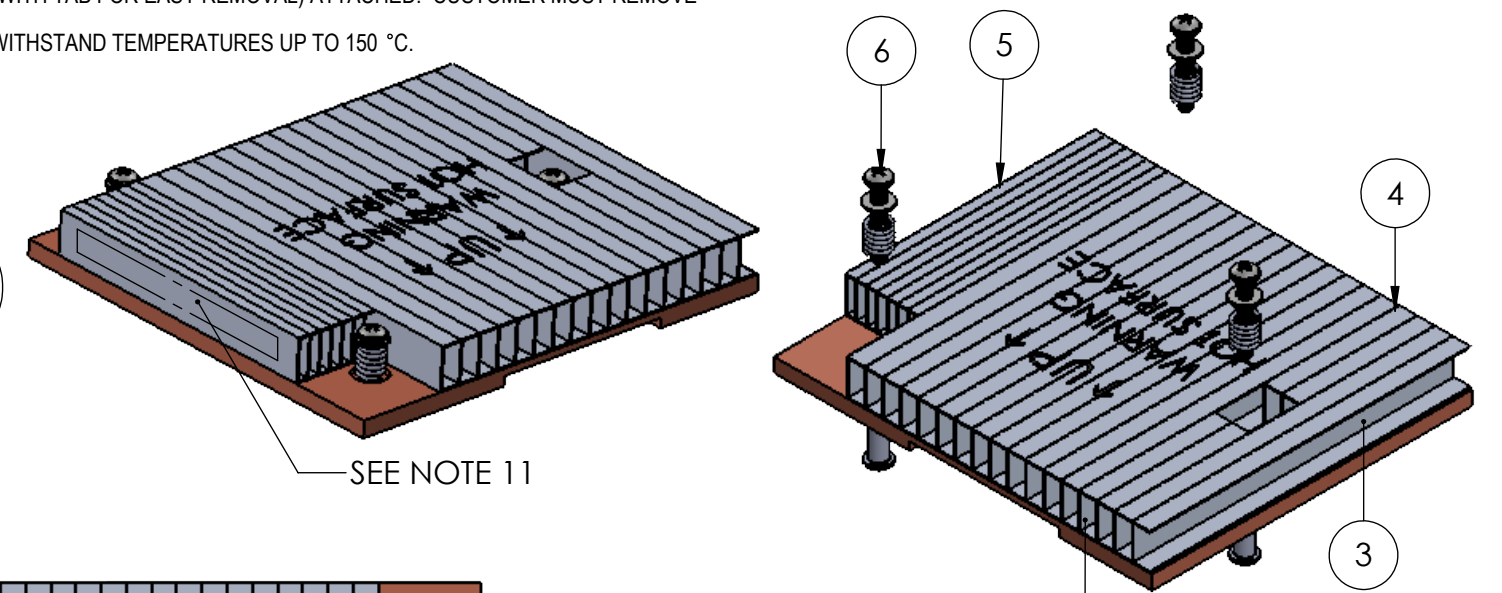
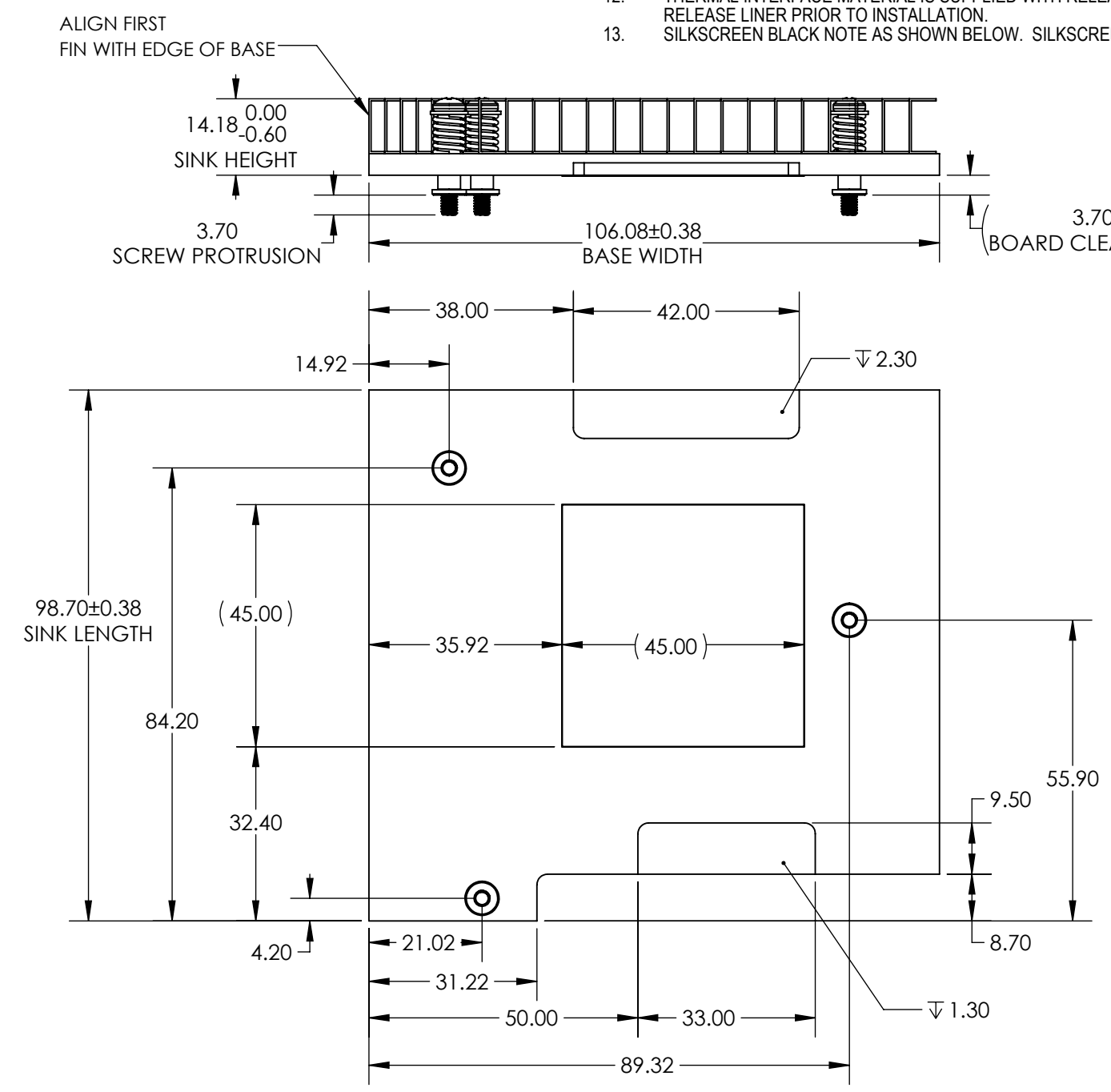


ATS-2152-C1-R1

**Advanced Thermal Solutions, Inc**  
**PROPRIETARY**

- NOTES:
1. TOLERANCES X.X +/- .50 MM, X.XX +/- .25 MM, X.XXX +/- .125 MM UNLESS SHOWN OTHERWISE.
  2. SUPPLIER CERTIFIES THAT PRODUCT IS ROHS COMPLIANT.
  3. BASE MATERIAL: COPPER, FINISH: NICKEL PLATING; ZIPPER FIN MATERIAL: ALUMINUM; FINISH: NICKEL PLATING
  4. HEAT SINK SUPPLIED WITH THERMAL INTERFACE MATERIAL PRE-ASSEMBLED.
  5. LAIRD TPCM 788 IS 45mm X 45mm X 0.20mm AND IS LOCATED AS SHOWN IN VIEW BELOW.
  6. THIS HEATSINK ASSEMBLY IS FOR ALTERA ARRIA 1 ON THE RSM2 BOARD.
  7. HEAT SINK SUPPLIED WITH HARDWARE ASSEMBLY KIT PRE-ASSEMBLED.
  8. HARDWARE ASSEMBLY KIT MAY BE ORDERED SEPARATELY.
  9. HARDWARE ASSEMBLY KIT PROVIDES 6 PSI PRESSURE WHEN INSTALLED ON 45mm x 45mm X 3.45mm COMPONENT.
  10. HARDWARE ASSEMBLY KIT REQUIRES M3 HOLES WITH  $\phi$ 6.5mm KEEPOUT TOP SIDE AT EACH MTG LOCATIONS
  11. ETCH PART # "ATS-2152-C1-R1" IN APPROXIMATE AREA NOTED.
  12. THERMAL INTERFACE MATERIAL IS SUPPLIED WITH RELEASE LINER (WITH TAB FOR EASY REMOVAL) ATTACHED. CUSTOMER MUST REMOVE RELEASE LINER PRIOR TO INSTALLATION.
  13. SILKSCREEN BLACK NOTE AS SHOWN BELOW. SILKSCREEN INK TO WITHSTAND TEMPERATURES UP TO 150 °C.

REVISIONS		
REV.	DESCRIPTION	DATE
R0	ORIGINAL DESIGN	02/10/17
R1	CORRECTED NOTES 3 & 9	02/22/17



ITEM NO.	PART NUMBER	DESCRIPTION	SUPPLIER	QTY.	NOTES
1	ATS099106014-2152-C1-R0	HEAT SINK BASE	ATS	1	3,4,7
2	LAIRD TPCM 788-45X45	TPCM 788 45MM X 45MM X 0.20MM	LAIRD	1	4,5,12
3	ATS-ZF-090010B5-P4-TB-R1	ZIPPER FIN, 90mm	ATS	15	3
4	ATS-ZF-038010B3-P4-TB-R1	ZIPPER FIN, 38mm	ATS	4	3
5	ATS117086014-1646D-C1-R1	ZIPPER FIN, 70mm	ATS	7	3
6	ATS-HK212-R1	HARDWARE ASSEMBLY KIT	ATS	1	7,8,9,10

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<p><b>Advanced Thermal Solutions, Inc</b> 89 Access Road #27 Norwood MA, 02062</p>	DWN: CAH	DESIGNER: GW	APPROVED /RELEASED FOR ATS MANUFACTURE: GW 2/23/2017	SCALE: NTS	DATE: 02/22/2017	DWG. NO. ATS-2152-C1-R1	LEVEL
	DESCRIPTION: HEAT SINK			TOLERANCE: AS SPECIFIED	FINISH: SEE NOTES	MATERIAL: SEE NOTES	DRW UNITS: MM(IN)

Thursday, February 23, 2017

ATS-2152-C1-R1