# pushPIN<sup>™</sup> Heat Sink Assembly

# ATS Part#: ATS-02H-91-C1-R0

## Description: pushPIN™ HS ASMBLY,FINE-PITCH,STRAIGHT, HOLE PATTERN:RIGHT-TABBED,BLUE,NO TIM

## Heat Sink Type: pushPIN™ Heat Sink Assembly

#### Heat Sink Attachment: pushPIN™

# Features & Benefits

- » Quick Attachment Push pins feature a flexible barb at the end designed to engage with pre-drilled holes in a PCB.
- » Compression Springs add the necessary force to hold the assembly together for secure attachment. Select from over 21 different springs to achieve precise force required.
- » Push Pin Material available in brass or plastic in 10 sizes ranging from 9-20mm in length. Stainless steel hardware kit available for more secure attachment. Visit www.qats.com for available options.
- » Heat Sinks Designed for All Airflow Conditions. Select from over 112 fine pitch HS designed for high velocity air flows and 98 course pitch HS designed for low velocity air flow conditions.
- » Pre-assembled with phase-changing material for increased thermal performance. Double-sided thermal tape and no TIM options available to meet application-specific requirements.
- » Lightweight, aluminum HS extruded from AL6063 provide optimal heat transfer with a blue anodized finish.
- » All components are RoHS and REACH compliant.
- » Industry standard hole pattern. Recommended through hole size is 3.175mm



# **Bill of Material**

1) Dimension A is the length of the heat sink in the direction of the flow. 2) Dimension B is the width of the heat sink perpendicular to the flow direction. 3) Dimension C is the heat sink height from the bottom of the base to the top of the fin

4) Dimension E is the distance between holes perpendicular to the direction

6) Thermal performance data are provided for reference only. Actual performance may

5) Dimension F is the distance between holes in the direction of flow.

7) ATS reserves the right tp update or change its products without notice

8) ATS certifies that this heat sink assemby is RoHS-6 and REACH compliant.

Heat Sink: ATS-FPX040040010-91-C1-R0 1   Push Pin: ATS-PP-09 2					
Push Pin:	ATS-PP-09	2			
Springs:	ATS-PPS-02	2			

Qty

Thermal Performance											
AIR VELOCIT	Ƴ - LFM (m/s)	100 (0.5)	200 (1.0)	300 (1.5)	400 (2.0)	500 (2.5)	600 (3.0)	700 (3.5)	Fin Pitch	Fin Type	Hole Pattern
Thermal Resistance °C/W	Unducted Flow	21.94	10.16	5.76	4.02	3.17	2.69	2.38		STRAIGHT	RIGHT- TABBED
	Ducted Flow	3.74	2.39	1.94	1.70	1.54	1.42	1.33	FINE-PITCH		

# **Product Detail**

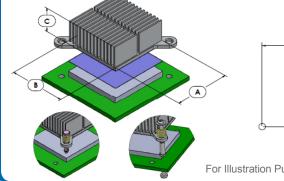
P/N		D	imensior	าร		Push Pin	Spring	TIM	Finish
	А	В	С	E	F	PushPin	Spring	I IIVI	FILISI
ATS-02H-91-C1-R0	40.00	40.00	10.00	45.00	45.00	ATS-PP-09	ATS-PPS-02	NO TIM	BLUE ANODIZED

NOTES:

field

of flow

vary by application.



THERMAL SOLUTIONS, INC.

Innovations in Thermal Management®

## For Illustration Purposes ONLY.

- ADVANCED
  - For further technical information, please contact Advanced Thermal Solutions, Inc.

9) Contact ATS to learn about custom options available.

to improve the design or performance.

89-27 ACCESS ROAD, NORWOOD, MA 02062 USA | T: 781.769. 2800 F: 781.769.9979 | WWW.QATS.COM