## pushPIN<sup>™</sup> Heat Sink

## ATS Part#: ATS-FPX045045020-99-C3-R0

#### Description: push PIN™ HS,FINE-PITCH,STRAIGHT,HOLE PATTERN:RIGHT-TABBED,BLUE ANODIZED,T412

Heat Sink Type: pushPIN™ Heat Sink

Heat Sink Attachment: pushPIN™ - SOLD SEPARATELY

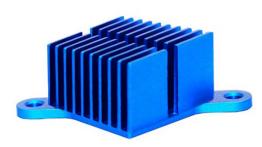
#### **Features & Benefits**

- » 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.

ADVANCED THERMAL SOLUTIONS, INC.

Innovations in Thermal Management®

» Industry standard hole pattern. Recommended through hole size is 3.175mm



For Illustration Purposes ONLY.

#### **Bill of Material**

Heat Sink: ATS-FPX045045020-99-C3-R0

# Qty

### Note:

This item represents the heat sink ONLY. To order the complete pushPIN<sup>™</sup> Assembly, visit www.qats.com

	Thermal Performance											
AIR V	AIR VELOCITY = LEVL(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 Resista °C/W	Resistance	Unducted Flow	11.60	4.00	2.30	1.60	1.30	1.10	1.00	FINE- PITCH	STRAIGHT	RIGHT- TABBED
	C/W	Ducted Flow	1.80	1.10	0.90	0.80	0.80	0.70	0.70			

P/N ATS-FPX045045020-99-C3-R0	А			ns		Duch Die	Oraciana		<b>F</b> isish			
ATS-EPX045045020-00-C3-R0	A E		С	Е	F	Push Pin	Spring	TIM	Finish			
10-11 X0+30+3020-33-03-100	45.00	45.00	20.00	50.00	50.00	N/A	N/A	T412	BLUE ANODIZEE			
					<ul> <li>NOTES:</li> <li>1) Dimension A is the length of the heat sink in the direction of the flow.</li> <li>2) Dimension B is the width of the heat sink perpendicular to the flow direction.</li> <li>3) Dimension C is the heat sink height from the bottom of the base to the top of the left.</li> </ul>							
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					nermal perfo ary by applic	ormance data are ation.	provided for refer	ence only. Actua	I performance m			
					<ol> <li>ATS reserves the right to update or change its products without notice to improve design or performance.</li> </ol>							
· · · · · · · · · · · · · · · · · · ·				8) ATS certifies that this heat sink assemby is RoHS-6 and REACH compliant.								
					9) Contact ATS to learn about custom options available.							

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

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