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

### ATS Part#: ATS-19B-71-C3-R0

Description: pushPIN™ HS ASMBLY,FINE-PITCH,STRAIGHT, HOLE PATTERN:LEFT-TABBED,BLUE,T412

Heat Sink Type: pushPIN™ Heat Sink Assembly

Heat Sink Attachment: pushPIN™ / Spring Kit

#### 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

Heat Sink: ATS-FPX045045030-71-C3-R0 Push Pin: ATS-PP-02					
Push Pin:	ATS-PP-02	2			
Springs:	ATS-PPS-19	2			

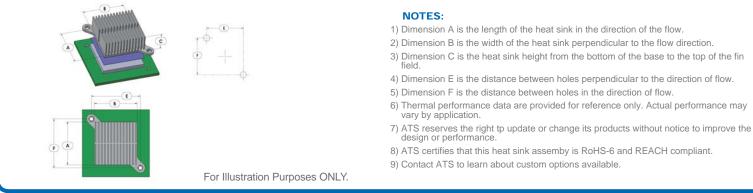
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Thermal Performance											
AIR VELOCITY	′ - LFM (m/s)	100 (0.5)	200 (1.0)	300 (1.5)	400 (2.0)	500 (2.5)	600 (3.0)	700 (3.5)	Fin Pitch	Fin Type	Hole Pattern
Thermal Resistance °C/W	Unducted Flow	6.77	2.32	1.38	1.03	0.86	0.76	0.70		STRAIGHT	LEFT- TABBED
	Ducted Flow	1.29	0.84	0.69	0.62	0.58	0.54	0.52	FINE-PITCH		

## Product Detail

Innovations in Thermal Management®

P/N		D	imensior	าร		Duch Din	Spring	ТІМ	Finish
	А	В	С	E	F	Push Pin			
ATS-19B-71-C3-R0	45	45	30	50	50	ATS-PP-02	ATS-PPS-19	T412	BLUE ANODIZED



#### **SADVANCED THERMAL** SOLUTIONS, INC.

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

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