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

## ATS Part#: ATS-P1-89-C1-R0

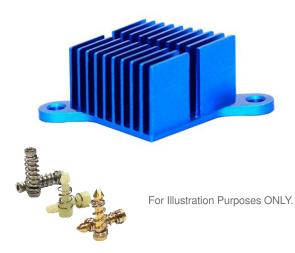
Description: pushPIN™ HS ASMBLY, FINE-PITCH, STRAIGHT, HOLE PATTERN: RIGHT-TABBED, BLUE, NO TIM

#### Heat Sink Type: pushPIN™ Heat Sink Assembly

Heat Sink Attachment: pushPIN™ / 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 3mm



### **Bill of Material**

Heat Sink:	ATS-FPX0	ATS-FPX035035030-89-C1-R0					
pushPIN™/S	oring Kit:	ATS-HK127-R0		1			

Qty

Ther	mal Perform	ance									
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	Unducted Flow	7.91	2.73	1.67	1.27	1.08	0.96	0.88	FINE-PITCH	INE-PITCH STRAIGHT	RIGHT- TABBED
°C/W	Ducted Flow	1.61	1.06	0.88	0.78	0.72	0.67	0.63			

Product D	etail							
P/N	Dimensions					Push Pin/Spring Kit	TIM	Finish
	А	В	С	E	F			
ATS-P1-89-C1-R0	35	35	30	40	40	ATS-HK127-R0	NO TIM	BLUE ANODIZED
	For III	Ustration Pr	urposes ONL		<ol> <li>2) Dimension</li> <li>3) Dimension field.</li> <li>4) Dimension</li> <li>5) Dimension</li> <li>6) Thermal per vary by app</li> <li>7) ATS reserv design or p</li> <li>8) ATS certified</li> </ol>	A is the length of the heat sink in the di B is the width of the heat sink perpendic C is the heat sink height from the bottor E is the distance between holes perpen F is the distance between holes in the or formance data are provided for referen- plication. The sthe right to update or change its pro- erformance. That this heat sink assemby is RoHS- S to learn about custom options availab	cular to the flow dir m of the base to the dicular to the direc direction of flow. Ince only. Actual per ducts without notice 6 and REACH com	e top of the fin tion of the flow. formance may e to improve the



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

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