pushPIN[™] Heat Sink Assembly

ATS Part#: ATS-H1-99-C3-R0

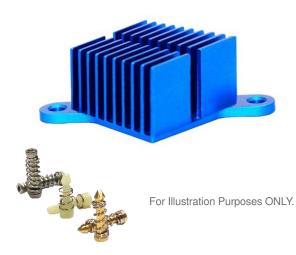
Description: pushPIN™ HS ASMBLY, FINE-PITCH, STRAIGHT, HOLE PATTERN: RIGHT-TABBED, BLUE, T412

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 3mm



Bill of Material

Heat Sink:	ATS-FPX045045020-99-C3-R0				
pushPIN™/Sp	oring Kit:	ATS-HK76-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	Unducted Flow	11.60	4.05	2.28	1.63	1.31	1.13	1.02	FINE-PITCH	H STRAIGHT	RIGHT- TABBED
Resistance °C/W Ducted Flo	Ducted Flow	1.81	1.15	0.94	0.83	0.76	0.72	0.68			

Product D	etail							
P/N	Dimensions					Push Pin/Spring Kit	TIM	Finish
	А	В	C	E	F		I IIVI	ГШЫ
ATS-H1-99-C3-R0	45	45	20	50	50	ATS-HK76-R0	T412	BLUE ANODIZED
	For Illu	•	urposes ONI	LY.	 2) Dimension 3) Dimension field. 4) Dimension 5) Dimension 6) Thermal pervention 6) Thermal pervention 7) ATS reserved design or p 8) ATS certified 	A is the length of the heat sink in the dir B is the width of the heat sink perpendir C is the heat sink height from the bottor E is the distance between holes perpen F is the distance between holes in the c erformance data are provided for referen- plication. res the right to update or change its pro- erformance. es that this heat sink assemby is RoHS- 'S to learn about custom options availab	cular to the flow dii m of the base to th dicular to the direc lirection of flow. Ice only. Actual pe ducts without notic 6 and REACH con	e top of the fin ttion of the flow. rformance may e to improve the



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

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