WaveTherm

SOLIDWEDGE™
SW5-120-375-375-XXX-XX

The SOLIDWEDGE™ is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

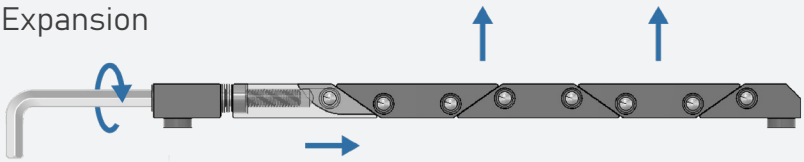
OPTIMIZED FOR VITA 48.2 AND cPCI

US PATENT
8,456,846

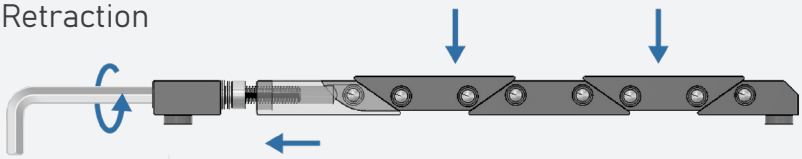
POSITIVE RETRACTION

Adjacent wedge segments are connected to prevent a stuck wedge lock. Turning the drive screw counterclockwise retracts the threaded drive wedge, pulling each of the connected segments down to their relaxed position.

Expansion



Retraction



SW5 Pictured

THERMAL RESISTANCE

0.08 °C/W Resistance per Card Edge

FEATURES

1800 lb Clamping Force
Mass: 85 g
Helicoil Insert
Belleville Spring Washers
#10 Drive Screw
Zero Insertion Force
Low Profile Design
Self-Retracting Segments
Superior Plating Endurance
Optimized for Vita Specifications
Models Available for Download
Torque to 15-30 in-lbs

MATERIALS

Active Wedge Segments: 6061-T6511

Front Mounting Block: 7075-T7351

Screws, Nuts, Washers:
300 Series Stainless Steel
(passivated per AMS - 2700)

Helicoil Wire Insert: Nitronic 60

3D MODEL:

https://a360.co/461Vu9e

The SOLIDWEDGE™ design provides three times the thermal contact area of conventional wedge locks. The design also features a larger screw size, which creates higher contact forces between the heat frame and cold wall surfaces, significantly improving thermal performance.

The interconnected links of the SOLIDWEDGE™ feature positive retraction of all segments without the use of springs or other mechanisms.

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REV 20240109

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SOLIDWEDGE™
SW5-120-375-375-XXX-XX

PART NUMBER BUILDER

Required | Additional Specifications

SW5	-	120	-	375	-	375	-	XXX	-	XX	-	YY	-		-	
Wedge:		Spacing:		Height:		Width:		Hex:		Finish:		1		2		3

Wedge:
- SW - Solidwedge
- 5 - Active Segments

Spacing:
- 12" Mounting Hole Spacing

Height: 0.375"

Width: 0.375"

Hex:
- 5/32" Hex Key - [532]
- M4 Hex Key - [M4]

Finish:

	Black Anodize per MIL-A-8625, Type II, Class 2	[BA]
	Hard Black Anodize per MIL-A-8625, Type III, Class 2	[BH]
	Chemical Film per MIL-C-5541, Class 1A, Clear	[CC]
	Chemical Film per MIL-C-5541, Class 1A, Gold, non-RoHS	[CG]
	Electroless Nickel per MIL-C-26074, Class 4, Grade B, Bright	[EN]

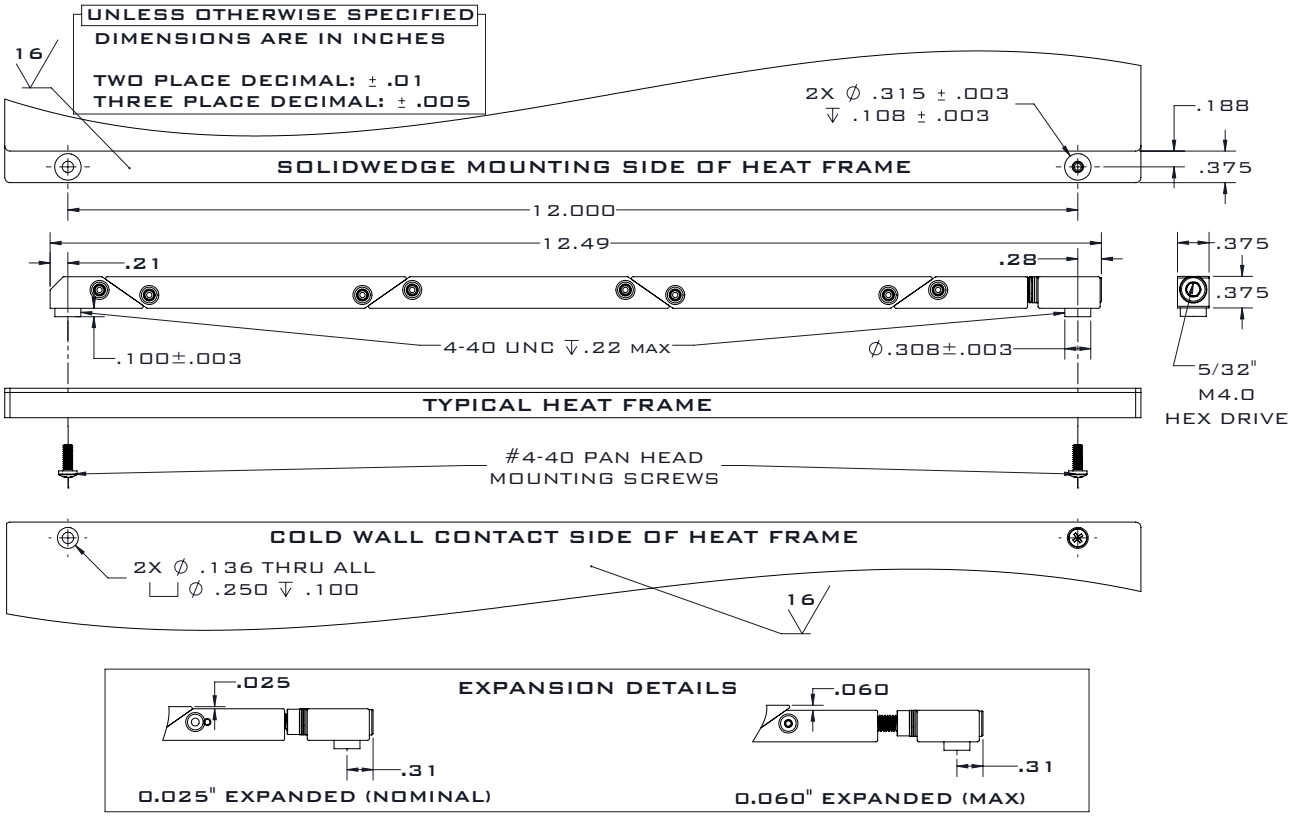
1
- [NL] - Nylok Lock Patch

2

3

Recommended Part Number: **SW5-120-375-375-532-BA**

Mounting Details



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