

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

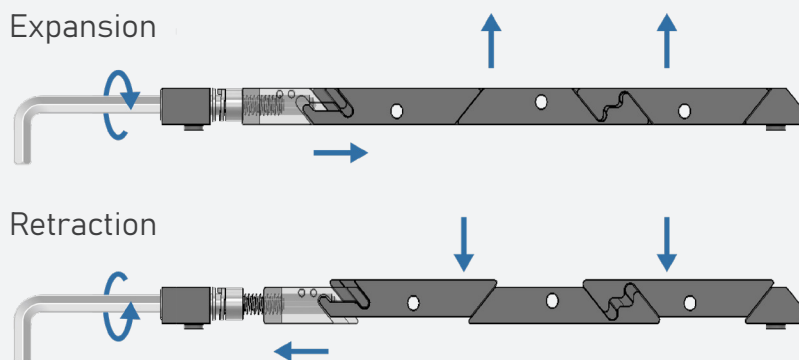
OPTIMIZED FOR VITA 48.2 AND CPCI



**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.



SW5 Pictured

THERMAL RESISTANCE

0.12 °C/W Resistance per Card Edge

FEATURES

- 800 lb Clamping Force
- Mass: 14.7 g
- #6 Drive Screw
- Zero Insertion Force
- Low Profile Design
- Self-Retracting Segments
- Superior Plating Endurance
- Optimized for VITA Specifications
- Models Available for Download
- Torque to 6-10 in-lbs

MATERIALS

Active Wedge Segments: 6061-T6511

Front Mounting Block: 6061-T6511

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

3D MODEL:

<https://a360.co/3svZKAb>

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.

PART NUMBER BUILDER

Required

Additional Specifications

SW7 - 43 - 270 - 250 - XXX - XX - YY - - -	
Wedge:	Spacing: 4.3" MOUNTING HOLE SPACING
Height: 0.270"	Width: 0.250"
Hex:	Finish:
SW - SOLIDWEDGE 7 - ACTIVE SEGMENTS	3/32" HEX KEY - [332] M2.5 HEX KEY - [M25] 7/64" HEX KEY - [764]
<div> <div>1</div> <div>2</div> <div>3</div> </div> <div> <div>[BV] - BELLEVILLE WASHERS</div> <div>[NL] - NYLOK LOCK PATCH</div> <div>[HC] - HELICOIL INSERTION</div> </div>	
<div> <div>BLACK ANODIZE PER MIL-A-8625, TYPE II, CLASS 2 [BA]</div> <div>HARD BLACK ANODIZE PER MIL-A-8625, TYPE III, CLASS 2 [BH]</div> <div>CHEMICAL FILM CLEAR [CC]</div> <div>CHEMICAL FILM GOLD [CG]</div> <div>ELECTROLESS NICKEL [EN]</div> </div> <div>See last page for more plating info</div>	

RECOMMENDED PART NUMBER: SW7-43-270-250-332-BA-BV-HC

MOUNTING DETAILS

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES.

TOLERANCES:

TWO PLACE DECIMAL: $\pm .01$

THREE PLACE DECIMAL: $\pm .005$

EXPANSION DETAILS

.025

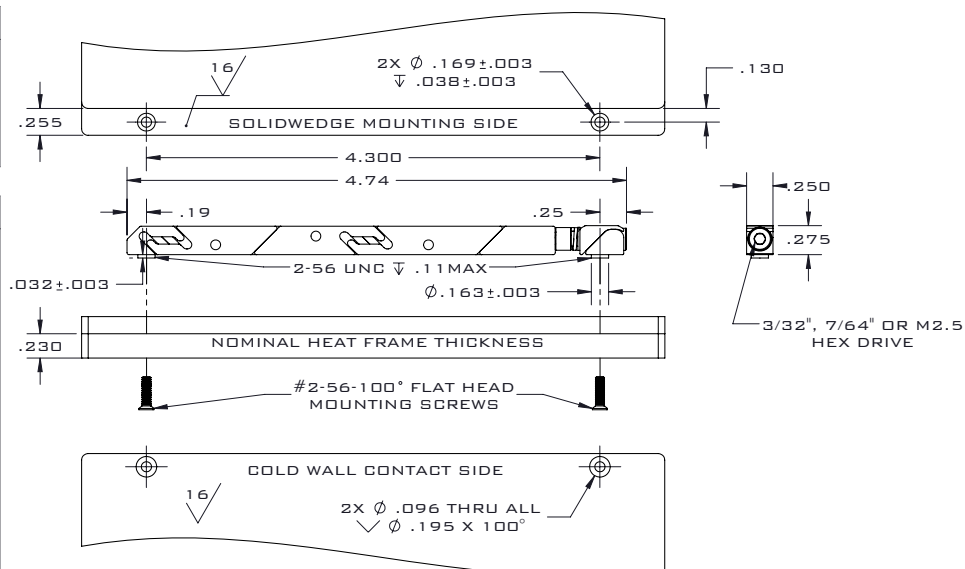
.31

NOMINAL EXPANSION: .025"

.060

.34

MAXIMUM EXPANSION: .060"



Standard material specs for WaveTherm's SOLIDWEDGE™, injector/ejectors, and OpenCOTS products.

ASSEMBLY HARDWARE



300 SERIES STAINLESS STEEL

Compliance	Specification	Use Case
✓ DFARS	Passivated per	Standard material for screws, nuts, washers, and SOLIDWEDGE™ straps in WaveTherm product assemblies.
✓ RoHS	AMS-2700	
✓ REACH		

ALUMINUM PLATING



BLACK ANODIZED - BA

Compliance	Specification	Properties and Use Case
✓ RoHS	MIL-A-8625	Provides reliable corrosion resistance and durability. Ideal for use in demanding applications requiring high insertion/extraction counts.
✓ REACH	Type II Class 2	



BLACK ANODIZED HARDENED - BH

Compliance	Specification	Properties and Use Case
✓ RoHS	MIL-A-8625	Provides superior corrosion resistance and high durability. Ideal for use in harsh and rugged environments with high insertion/extraction counts.
✓ REACH	Type III Class 2	



CHEMICAL FILM CLEAR - CC

Compliance	Specification	Properties and Use Case
✓ RoHS	MIL-DTL-5541	Provides good corrosion resistance and electrical conductivity with lower durability. Not ideal for high insertion/extraction counts.
✓ REACH	Type II Class 1A Clear	



CHEMICAL FILM GOLD - CG

Compliance	Specification	Properties and Use Case
✗ RoHS	MIL-DTL-5541	Provides good electrical conductivity with lower durability. Not suited for high insertion/extraction counts.
✗ REACH	Type I Class 1A Gold	



ELECTROLESS NICKEL - EN

Compliance	Specification	Properties and Use Case
✓ RoHS	MIL-C-26074	Provides excellent thermal performance and excellent electrical conductivity. Ideal for high-performance thermal management.
✓ REACH	Class 4 Grade B	

Images for demonstration only

*varies based on plating vendor's certificates of conformance