WAVETHERM

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

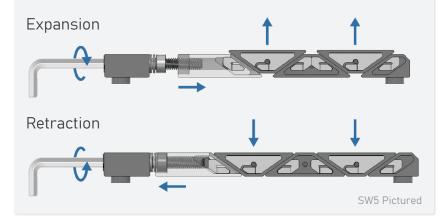
OPTIMIZED FOR VITA 48.2 AND CPCI



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.



THERMAL RESISTANCE

0.08 °C/W Resistance per Card Edge

FEATURES

1800 lb Clamping Force Mass: 28.6 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/3wgiggp

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.

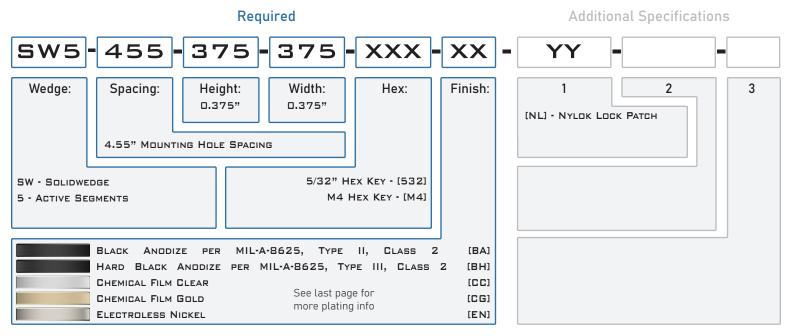
The interconnected links of the SOLIDWEDGE[™] feature positive retraction of all segments without the use of springs or other mechanisms.



SALES - SALES@WAVETHERM.COM TECHNICAL - TECH@WAVETHERM.COM WWW.WAVETHERM.COM 919-307-8071

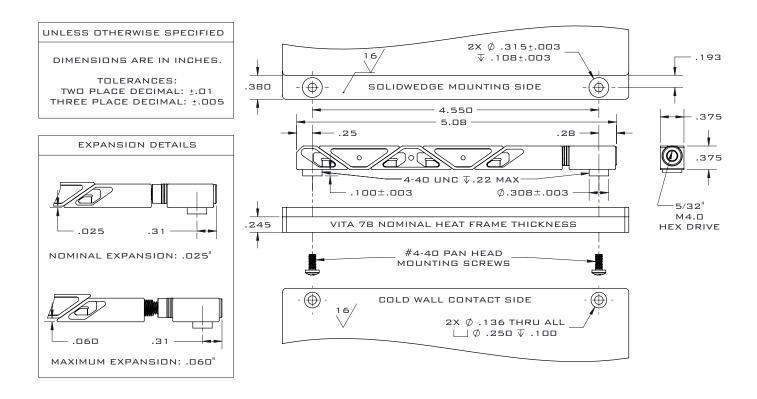


PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SW5-455-375-375-532-BA

MOUNTING DETAILS





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WAVETHERM-

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

ASSEMBLY HARDWARE



300 SERIES STAINLESS STEEL Compliance Specification

DFARS RoHS

REACH

Passivated per AMS-2700

Use Case

Standard material for screws, nuts, washers, and SOLIDWEDGE[™] straps in WaveTherm product assemblies.

ALUMINUM PLATING



BLACK ANODIZED - BA Compliance

Specification MIL-A-8625 RoHS Type II REACH Class 2

Properties and Use Case

Provides reliable corrosion resistance and durability. Ideal for use in demanding applications requiring high insertion/extraction counts.



BLACK ANODIZED HARDENED - BH

Compliance	Specification
✓ RoHS✓ REACH	MIL-A-8625 Type III Class 2

Properties and Use Case

Provides superior corrosion resistance and high durability. Ideal for use in harsh and rugged environments with high insertion/extraction counts.



CHEMICAL FILM CLEAR - CC

Compliance RoHS REACH

Specification MIL-DTL-5541 Type II Class 1A Clear

Properties and Use Case

Provides good corrosion resistance and electrical conductivity with lower durability. Not ideal for high insertion/extraction counts.



CHEMICAL FILM GOLD - CG Specification

Compliance Х RoHS Type I X REACH Class 1A Gold

MIL-DTL-5541 MIL-C-5541 or* Class 1A Gold

Properties and Use Case

Provides good electrical conductivity with lower durability. Not suited for high insertion/extraction counts.

ELECTROLESS NICKEL - EN



ance	Specification		
oHS	MIL-C-26074		AMS-C-2
EACH	Class 4	or*	Class 4
	Grade B		Grade B

Properties and Use Case

26074 Provides excellent thermal performance and excellent electrical conductivity. Ideal for high-performance thermal management.

*varies based on plating vendor's certificates of conformance

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