

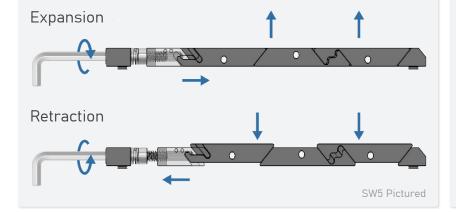
The SOLIDWEDGE<sup>™</sup> is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

## OPTIMIZED FOR VITA 48.2 AND CPCI



## 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

0.18 °C/W Resistance per Card Edge

## **FEATURES**

700 lb Clamping Force
Mass: 12 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/3QTJjaj

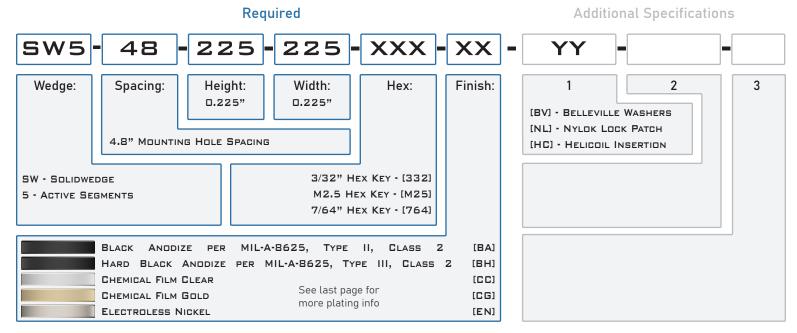
The SOLIDWEDGE<sup>™</sup> design provides three times the thermal contact area of conventional wedge locks. The design also features a larger screw size, which creates higher contact forces between the heat frame and cold wall surfaces, significantly improving thermal performance.

The interconnected links of the SOLIDWEDGE $^{\text{\tiny TM}}$  feature positive retraction of all segments without the use of springs or other mechanisms.



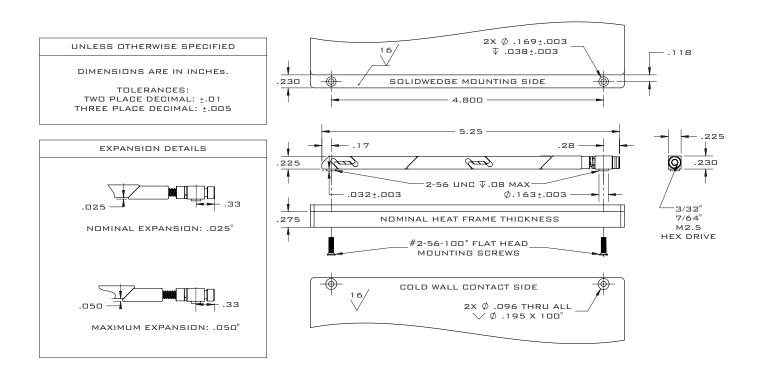


## PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SW5-48-225-225-332-BA-BV-HC

# MOUNTING DETAILS







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

#### ASSEMBLY HARDWARE



## 300 SERIES STAINLESS STEEL Specification

Compliance

RoHS

**REACH** 

**DFARS** 

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 ANDDIZED HARDENED - BH

Compliance Specification

MIL-A-8625 RoHS

Type III **REACH** 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 **REACH** 

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

Compliance RoHS Specification

MIL-DTL-5541

or\* Class 1A Type I

Class 1A Gold

MIL-C-5541

Gold

Properties and Use Case

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



**ELECTROLESS NICKEL - EN** 

Compliance

RoHS

REACH

Specification

MIL-C-26074

Class 4 Grade B or\* Class 4 Grade B Properties and Use Case

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

\*varies based on plating vendor's certificates of conformance



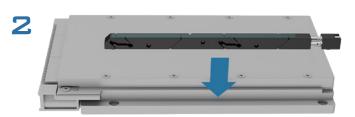




# SOLIDWEDGE" INSTALLATION



Apply Loctite 2760 to #2-56-100° flat head mounting screws (not included)



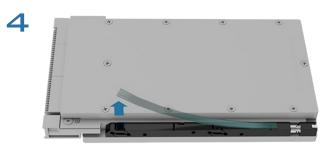
Align SOLIDWEDGE to mounting hole locations

3



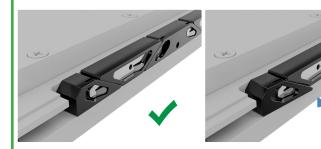
Install screws and torque to 2 in-lbs. Ensure mounting screw doesn't hit drive screw.

(reference mounting drawing for max thread engagement)

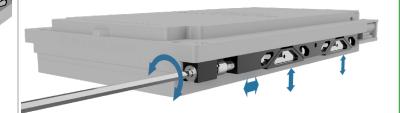


Remove mounting tape from SOLIDWEDGE

## CHECK INSTALL



Check alignment on both mounting blocks after torquing and press to straighten if necessary.



Ensure SOLIDWEDGE is functioning correctly by expanding and contracting with a hex key.



SOLIDWEDGEs are not intended to be mounted directly to PCBs. The opposing force of the mounting blocks may result in board damage.

