

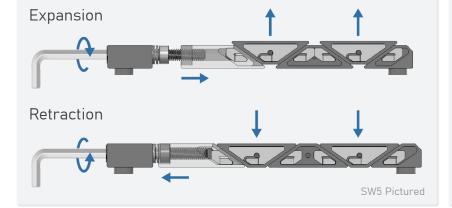
The SOLIDWEDGE<sup>™</sup> is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

## 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

0.09 °C/W Resistance per Card Edge

#### **FEATURES**

1200 lb Clamping Force
Mass: 15 g
Helicoil Insert
#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)

Helicoil Wire Insert: Nitronic 60

#### 3D MODEL:

https://a360.co/3ufZbLa

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.

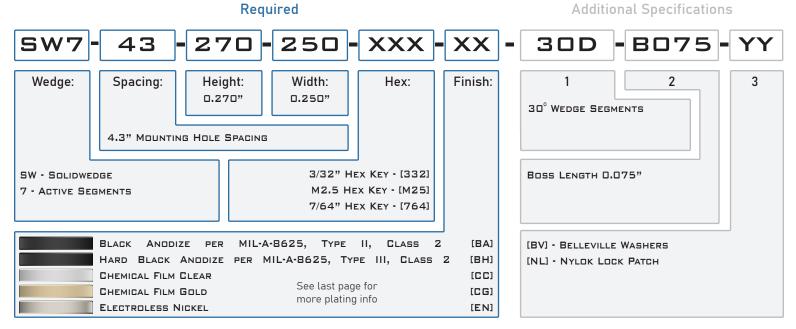
The interconnected links of the SOLIDWEDGE $^{\text{\tiny TM}}$  feature positive retraction of all segments without the use of springs or other mechanisms.



SOLIDWEDGE™

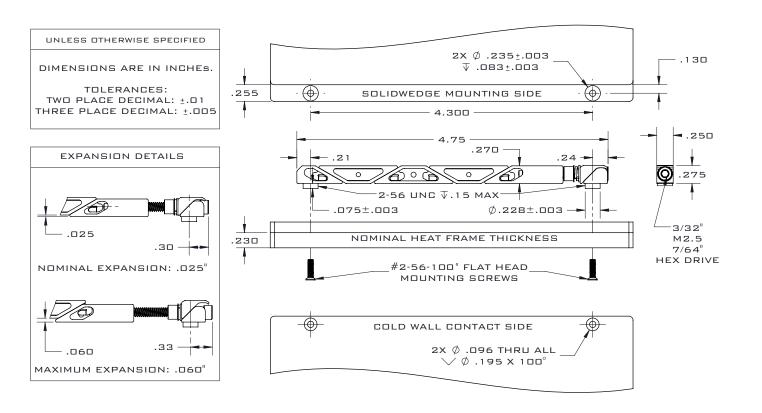


# PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SW7-43-270-250-332-BA-30D-B075-BV

# MOUNTING DETAILS







**REACH** 

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

#### ASSEMBLY HARDWARE



#### 300 SERIES STAINLESS STEEL

Compliance Specification Use Case

Passivated per Standard material for screws, nuts, washers, **DFARS** 

and SOLIDWEDGE™ straps in WaveTherm product AMS-2700 RoHS

assemblies.

#### ALUMINUM PLATING



#### **BLACK ANODIZED - BA**

Compliance Specification Properties and Use Case

MIL-A-8625 Provides reliable corrosion resistance and durability. RoHS Type II Ideal for use in demanding applications requiring high **REACH** 

> Class 2 insertion/extraction counts.



#### BLACK ANDDIZED HARDENED - BH

Compliance Specification Properties and Use Case

MIL-A-8625 Provides superior corrosion resistance and high RoHS

Type III durability. Ideal for use in harsh and rugged **REACH** 

environments with high insertion/extraction counts.

Properties and Use Case

Properties and Use Case



## CHEMICAL FILM CLEAR - CC

Class 2

Compliance Specification Properties and Use Case

MIL-DTL-5541 Provides good corrosion resistance and electrical RoHS

conductivity with lower durability. Not ideal for high Type II **REACH** 

> Class 1A insertion/extraction counts.



## CHEMICAL FILM GOLD - CG

Compliance Specification

Clear

MIL-C-5541 MIL-DTL-5541 RoHS

Gold

Provides good electrical conductivity or\* Class 1A with lower durability. Not suited for Type I REACH

Class 1A Gold high insertion/extraction counts.

## **ELECTROLESS NICKEL - EN**

Compliance Specification

MIL-C-26074

AMS-C-26074 Provides excellent thermal RoHS

or\* Class 4 performance and excellent electrical Class 4 REACH Grade B Grade B conductivity. Ideal for high-performance

thermal management.



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

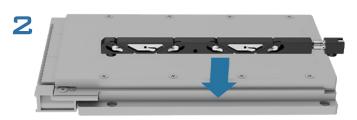




# SOLIDWEDGE" INSTALLATION



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)

## 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.

