

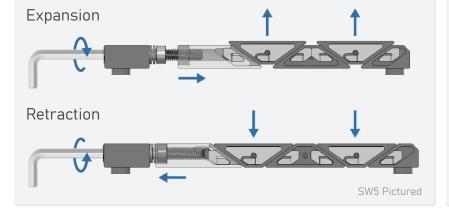
The SOLIDWEDGE $^{\text{TM}}$  is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

### 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

0.11 °C/W Resistance per Card Edge

# **FEATURES**

1000 lb Clamping Force
Mass: 18.4 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: 7075-T7351

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

Helicoil Wire Insert: Nitronic 60

#### 3D MODEL:

https://a360.co/3FU0nVG

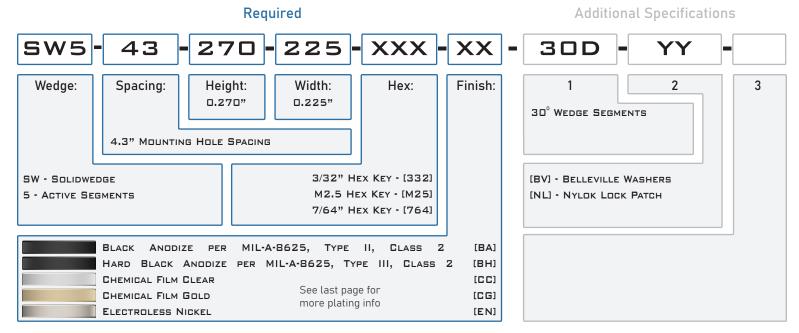
The SOLIDWEDGE<sup>™</sup> design provides three times the thermal contact area of conventional wedge locks. The design also features a larger screw size, which creates higher contact forces between the heat frame and cold wall surfaces, significantly improving thermal performance.

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



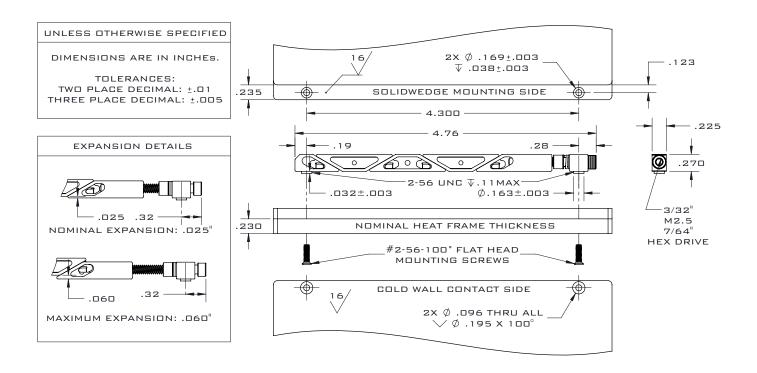


# PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SW5-43-270-225-332-BA-30D-BV

# MOUNTING DETAILS







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

#### ASSEMBLY HARDWARE



#### 300 SERIES STAINLESS STEEL

Compliance

Specification Passivated per Use Case

**DFARS** RoHS

**REACH** 

AMS-2700

Standard material for screws, nuts, washers, and SOLIDWEDGE™ straps in WaveTherm product

assemblies.

## ALUMINUM PLATING



# **BLACK ANODIZED - BA**

Compliance

REACH

Specification

Properties and Use Case

RoHS

MIL-A-8625

Type II

Class 2

Provides reliable corrosion resistance and durability.

Ideal for use in demanding applications requiring high

insertion/extraction counts.



#### BLACK ANDDIZED HARDENED - BH

Compliance

Specification

Properties and Use Case

RoHS

**REACH** 

MIL-A-8625 Type III

Class 2

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

Specification

Properties and Use Case

RoHS

MIL-DTL-5541

Provides good corrosion resistance and electrical

**REACH** 

Type II

conductivity with lower durability. Not ideal for high

Class 1A

insertion/extraction counts.

RoHS

REACH

Clear

# CHEMICAL FILM GOLD - CG



Compliance Specification

MIL-DTL-5541

MIL-C-5541

or\* Class 1A Type I

Class 1A Gold

Properties and Use Case

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

## **ELECTROLESS NICKEL - EN**

Gold

Compliance

Specification

RoHS REACH MIL-C-26074 Class 4

or\* Class 4 Grade B 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

