

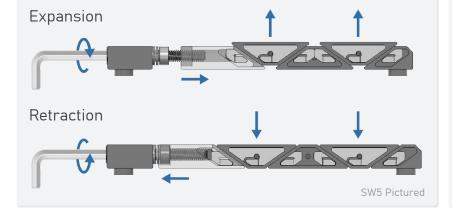
The SOLIDWEDGE[™] is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

OPTIMIZED FOR VITA 48.2 AND CPCI



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

0.1 °C/W Resistance per Card Edge

FEATURES

1000 lb Clamping Force
Mass: 19 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/3wie153

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.

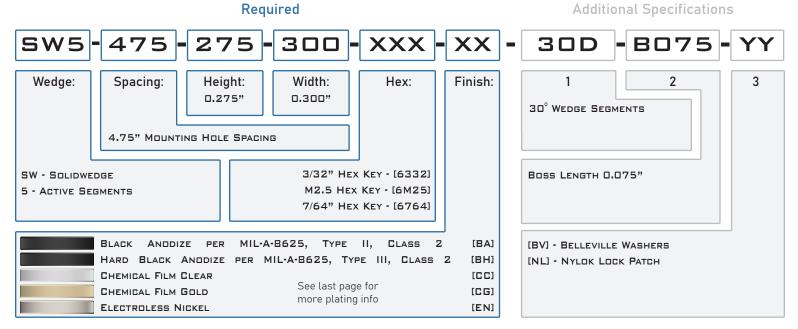
The interconnected links of the SOLIDWEDGE $^{\text{\tiny TM}}$ feature positive retraction of all segments without the use of springs or other mechanisms.



SOLIDWEDGE™

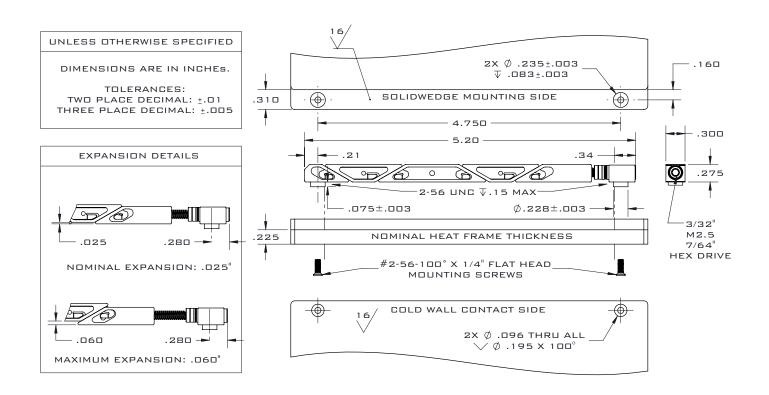


PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SW5-475-275-300-6332-BA-30D-B075-BV

MOUNTING DETAILS







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

ASSEMBLY HARDWARE



300 SERIES STAINLESS STEEL

Compliance Specification Use Case

DFARS

RoHS **REACH**

REACH

Passivated per AMS-2700

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 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 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.



CHEMICAL FILM CLEAR - CC

Class 2

Compliance Specification Properties and Use Case

MIL-DTL-5541 RoHS

Type II **REACH**

Class 1A Clear

Provides good corrosion resistance and electrical conductivity with lower durability. Not ideal for high

insertion/extraction counts.



CHEMICAL FILM GOLD - CG

Compliance Specification

MIL-DTL-5541 RoHS

REACH

REACH

Type I

or* Class 1A Class 1A Gold

Gold

Properties and Use Case

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



ELECTROLESS NICKEL - EN

Compliance Specification

MIL-C-26074 RoHS

> Class 4 Grade B

MIL-C-5541

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

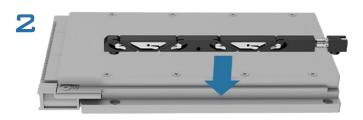




SOLIDWEDGE™ INSTALLATION



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



Align SOLIDWEDGE to mounting hole locations



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.

