

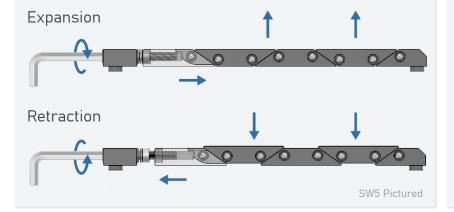
The SOLIDWEDGE[™] is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

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

0.08 °C/W Resistance per Card Edge

FEATURES

1800 lb Clamping Force
Mass: 98 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/47Aku9R

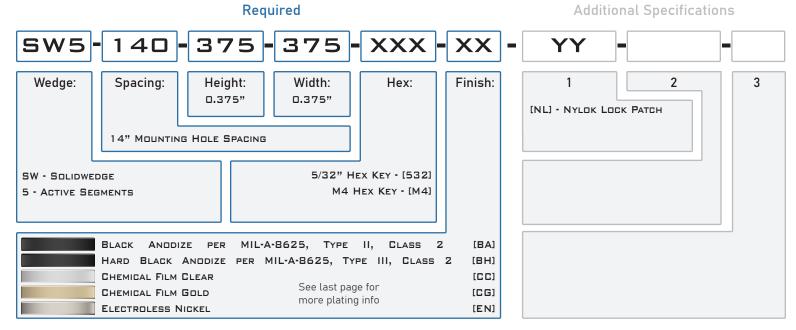
The SOLIDWEDGE[™] design provides three times the thermal contact area of conventional wedge locks. The design also features a larger screw size, which creates higher contact forces between the heat frame and cold wall surfaces, significantly improving thermal performance.

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



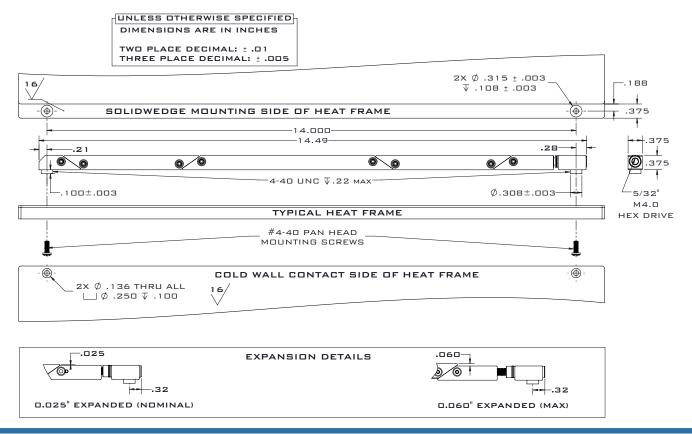


PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SW5-140-375-375-532-BA

MOUNTING DETAILS







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

RoHS

Specification MIL-A-8625

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

REACH

RoHS

Specification 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

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

Specification

RoHS

REACH

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



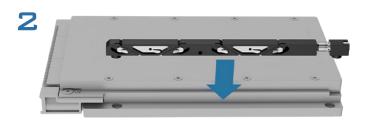




SOLIDWEDGE" INSTALLATION



Apply Loctite 2760 to #4-40 pan head mounting screws (not included)



Align SOLIDWEDGE to mounting hole locations

3



Install screws and torque to 4 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.

