

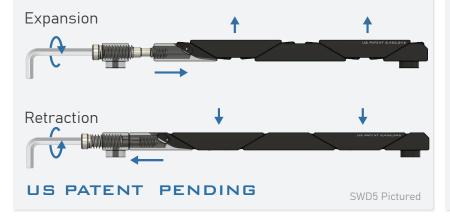
The SOLIDWEDGE[™] is a breakthrough technology that allows conduction cooled modules to operate at higher thermal loads in higher temperature environments.

OPTIMIZED FOR VITA 48.2 AND CPCI



DOUBLE THREADED DRIVE SCREW

Double end threaded drive screw reduces the number of turns on the drive screw by one half. The opposing threads reduce loosening during shock and vibration and create a more evenly distributed stress concentration on each thread. Adjacent wedge segments are connected to prevent a stuck wedge lock.



THERMAL RESISTANCE

0.15 °C/W Resistance per Card Edge

FEATURES

900 lb Clamping Force at 15 in-lbs
Mass: 9 g
Helicoil Insert
Zero Insertion Force
Low Profile Design for Thicker Heat Frame
Self-Retracting Segments
Superior Plating Endurance
Optimized for Vita Specifications
Models Available for Download
Torque to 8-15 in-lbs

SELF LOCKING THREADS

The EMUGE Self-Lock™ locking feature is integrated into the internal profile and works without any additional mechanical or chemical locking devices, therefore temperature variations do not noticeably affect it. This eliminates the need for secondary locking features and reduces FOD. https://info.emuge.com/self-lock

3D MODEL:

https://a360.co/4pjeme2

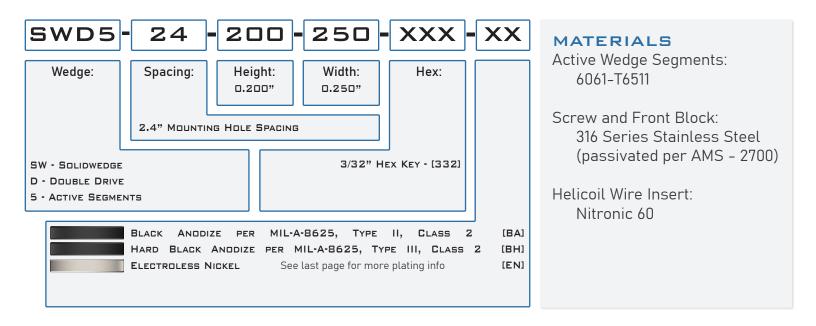
The SOLIDWEDGE[™] design provides three times the thermal contact area of conventional wedge locks. The design also features a larger screw size, which creates higher contact forces between the heat frame and cold wall surfaces, significantly improving thermal performance.

The interconnected links of the SOLIDWEDGE^m feature positive retraction of all segments without the use of springs or other mechanisms.



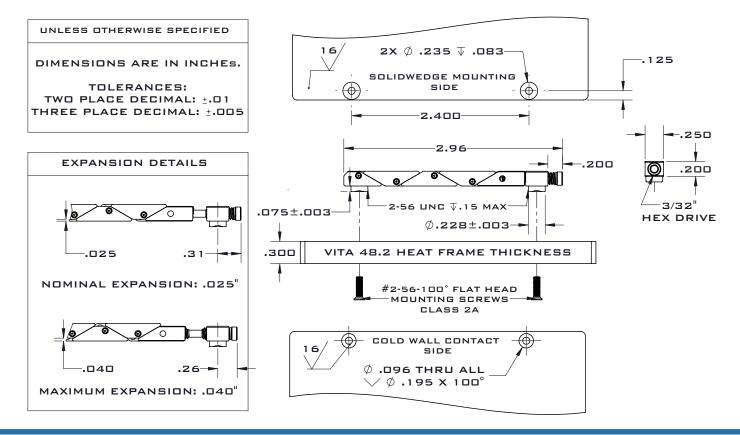


PART NUMBER BUILDER



RECOMMENDED PART NUMBER: SWD5-24-200-250-332-BA

MOUNTING DETAILS







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. **REACH**

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.



ELECTROLESS NICKEL - EN

Class 2

Compliance Specification

MIL-C-26074 RoHS

Class 4 or* Class 4 REACH

Grade B Grade B

*varies based on plating vendor's certificates of conformance

Properties and Use Case

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



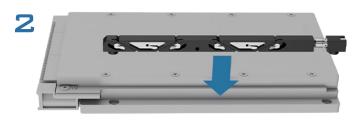




SOLIDWEDGE" INSTALLATION



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



Align SOLIDWEDGE to mounting hole locations

3



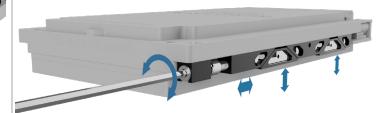
Install screws and torque to 2 in-lbs. Ensure mounting screw doesn't hit drive screw.

(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.

