# WAVETHERM-

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



### 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<sup>™</sup> 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. <u>https://info.emuge.com/self-lock</u>

**3D MODEL:** https://a360.co/3Vcs5a1

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



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## WAVETHERM

## PART NUMBER BUILDER



#### RECOMMENDED PART NUMBER: SWD5-33-200-250-332-BA

## MOUNTING DETAILS



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Standard material specs for WaveTherm's SOLIDWEDGE<sup>™</sup>, 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<sup>™</sup> straps in WaveTherm product assemblies.

#### ALUMINUM PLATING



#### **BLACK ANODIZED - BA** Specification Compliance

MIL-A-8625 RoHS 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 ANODIZED HARDENED - BH

Compliance		Specification	
✓ F	RoHS REACH	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 REACH

### Specification MIL-DTL-5541 Type II 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 Х RoHS Type I X REACH Class 1A

MIL-DTL-5541 MIL-C-5541 or\* 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



nce	Specification		
oHS	MIL-C-26074		AMS-C-2
EACH	Class 4	or*	Class 4
	Grade B		Grade B

#### Properties and Use Case

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

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



