

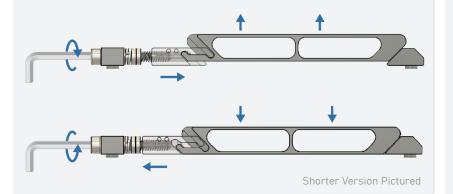
WaveTherm's Hybrid SOLIDWEDGE<sup>TM</sup> represents an innovative approach to secure and cool rugged single board computers. This evolutionary design delivers revolutionary performance gains by facilitating maximum air flow through a card-edge retaining device with simultaneous conduction-cooling properties. Through conductive distribution of the thermal loads of higher wattage boards to the cold wall, and to lower wattage adjacent boards, the Hybrid SOLIDWEDGE<sup>TM</sup> enables more efficient board-level and system level thermal designs.

# AIR FLOW THRU AND CONDUCTION COOLING



# POSITIVE RETRACTION

Adjacent wedge segments are connected to prevent a stuck wedge lock. Turning the drive screw counterclockwise retracts the threaded drive wedge, which in turn pulls each of the connected segments down to its released position.



# **FEATURES**

400lbs clamping force
Mass: 11g
Air Flow thru design
Conduction Cooling - Shared Thermal Load
Zero Insertion Force
Self Retracting Segments
Positive Retraction System
Large Drive Screw (6-32)
Models Available for Download
Torque to 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)

#### 3D MODEL:

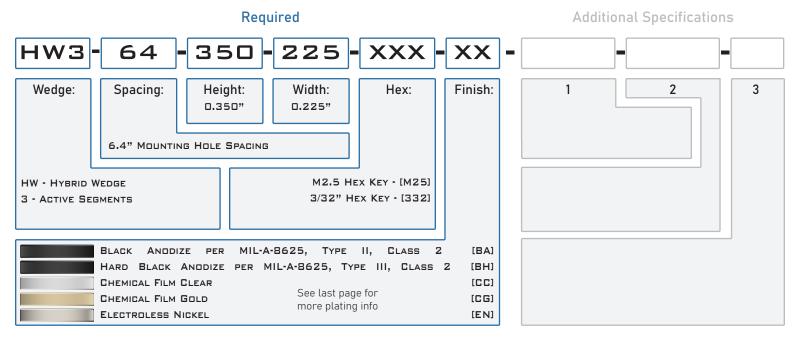
https://a360.co/3Ru43Wa

The Hybrid SOLIDWEDGE<sup>TM</sup> design is an evolutionary device that enables higher performance single board computers. The design also features a larger drive screw size which, creates higher contact forces between the heat frame and cold wall surfaces, which significantly improves thermal performance. The interconnected links of the Hybrid SOLIDWEDGE<sup>TM</sup> allow a positive retraction of all segments without the use of springs or other mechanisms.



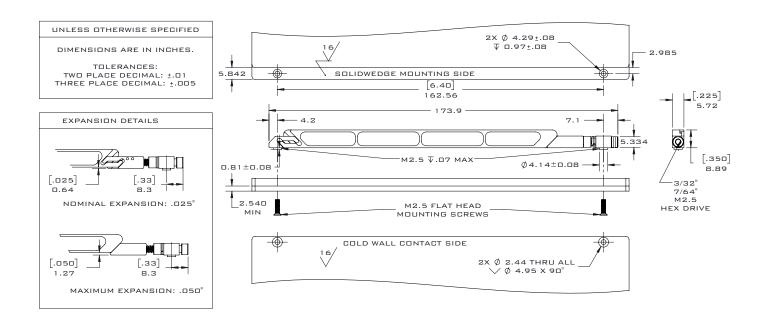


# PART NUMBER BUILDER



RECOMMENDED PART NUMBER: HW3-64-350-225-332-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

**DFARS** 

RoHS

**REACH** 

Passivated per AMS-2700

Standard material for screws, nuts, washers, and SOLIDWEDGE™ 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 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 Provides good corrosion resistance and electrical RoHS

Type II conductivity with lower durability. Not ideal for high **REACH** 

Class 1A insertion/extraction counts. Clear



# CHEMICAL FILM GOLD - CG

Compliance Specification

MIL-DTL-5541 RoHS

or\* Class 1A Type I REACH

MIL-C-5541

Class 1A

Gold

Gold

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

REACH Grade B

or\* Class 4 Grade B

## Properties and Use Case

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

