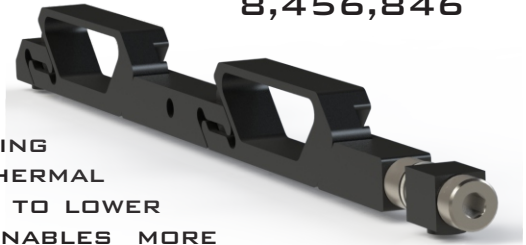


WAVETHERM'S HYBRID SOLIDWEDGE REPRESENTS AN INNOVATIVE APPROACH TO SECURE AND COOL RUGGED SINGLE BOARD COMPUTERS. THIS EVOLUTIONARY DESIGN DELIVERS REVOLUTIONARY PERFORMANCE GAINS BY FACILITATING MAXIMUM AIR FLOW THROUGH A CARD-EDGE RETAINING DEVICE WITH SIMULTANEOUS CONDUCTION-COOLING PROPERTIES. THROUGH CONDUCTIVE DISTRIBUTION OF THE THERMAL LOADS OF HIGHER WATTAGE BOARDS TO THE COLD WALL, AND TO LOWER WATTAGE ADJACENT BOARDS, THE HYBRID SOLIDWEDGE ENABLES MORE EFFICIENT BOARD-LEVEL AND SYSTEM LEVEL THERMAL DESIGNS.

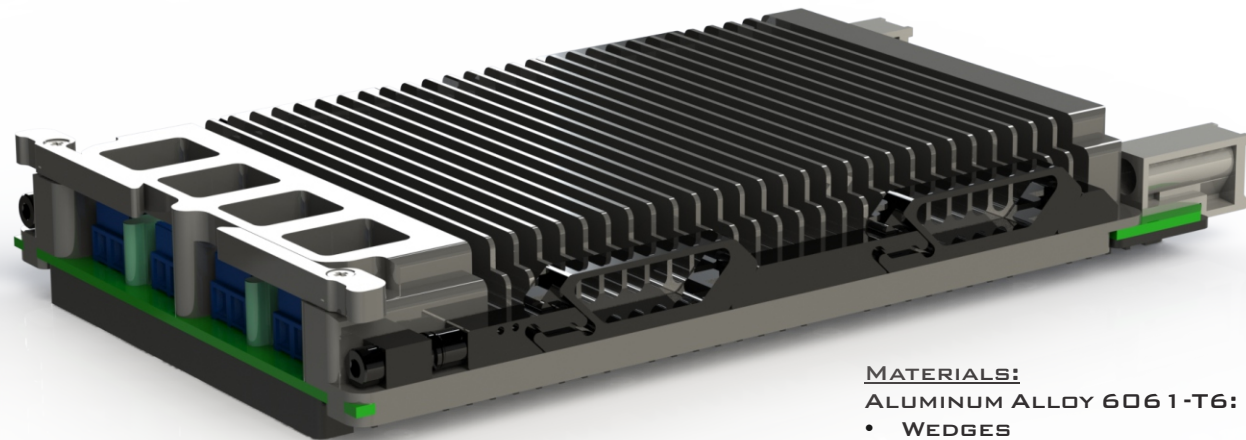
US PATENT  
8,456,846



### AIR FLOW THRU & CONDUCTION COOLING

#### FEATURES:

- AIR FLOW THRU DESIGN
- CONDUCTION COOLING  
SHARED THERMAL LOAD
- SUPERIOR CLAMPING FORCE
- ZERO INSERTION FORCE
- SELF RETRACTING SEGMENTS
- POSITIVE DRIVE SYSTEM
- LARGE DRIVE SCREW (6-32)
- MODELS AVAILABLE FOR DOWNLOAD
- TORQUE TO 10 IN-LBS



#### MATERIALS:

ALUMINUM ALLOY 6061-T6:

- WEDGES
- MOUNTING BLOCKS

300 SERIES STAINLESS STEEL:

- FLAT WASHER
- SPLIT WASHER
- GUIDE STRAPS
- HEX DRIVE SCREW MECHANISM

18-8 SERIES STAINLESS STEEL:

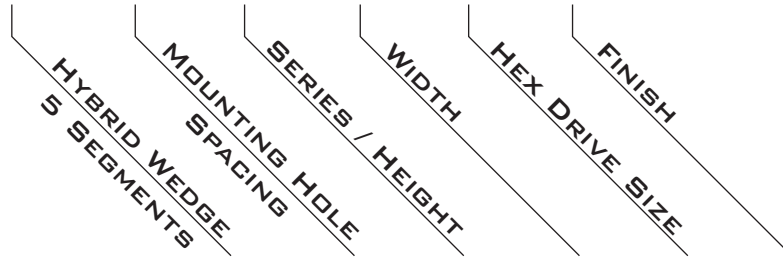
- SPRING PINS

THE HYBRID SOLIDWEDGE DESIGN IS AN EVOLUTIONARY DEVICE THAT ENABLES HIGHER PERFORMANCE SINGLE BOARD COMPUTERS. THE DESIGN ALSO FEATURES A LARGER 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 ALSO PROVIDE FOR A POSITIVE RETRACTION OF ALL SEGMENTS WITHOUT THE USE OF SPRINGS OR OTHER MECHANISMS.

**PART NUMBER EXAMPLE:**

**HW5-475-375-300-332-XX**



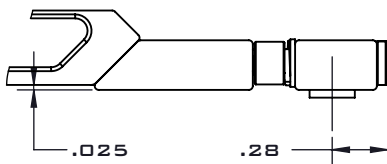
**NOTE: DIMENSIONS ARE IN DECIMAL INCHES. THE 50-425 SERIES REFERS TO THE 5.0" SPACING BETWEEN MOUNTING HOLE CENTERS AND 0.425" IS THE RELAXED HEIGHT OF THE WEDGE LOCK.**

UNLESS OTHERWISE SPECIFIED

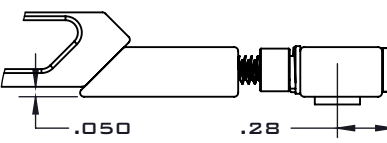
DIMENSIONS ARE IN INCHES.

TOLERANCES:  
TWO PLACE DECIMAL:  $\pm .01$   
THREE PLACE DECIMAL:  $\pm .005$

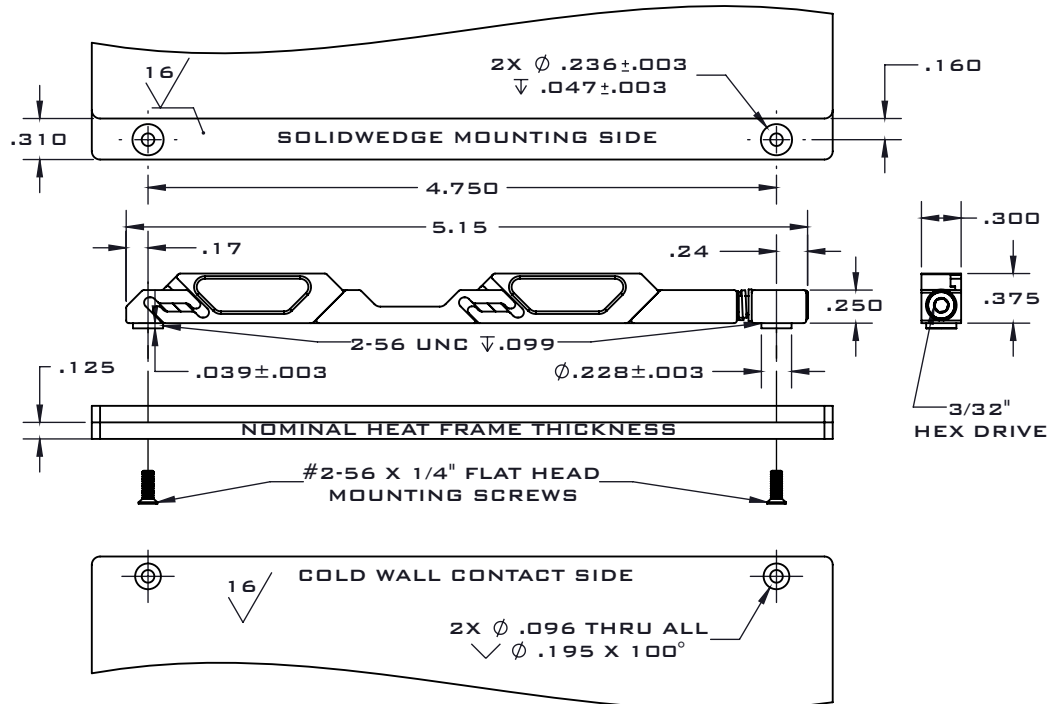
**EXPANSION DETAILS**



NOMINAL EXPANSION: .025"



MAXIMUM EXPANSION: .050"



**XXX - HEX DRIVE (TORQUE TO 10 IN-LBS)**

**M25 - SOCKET HEAD CAP SCREW USES A 2.5MM HEX KEY. (µTCA.2 STANDARD)**

**332 - SOCKET HEAD CAP SCREW USES A 3/32" HEX KEY.**

**YY - FINISHES AVAILABLE:**

- BA** BLACK ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, (.00005" - .0003")
- BH** HARD BLACK ANODIZE PER MIL-A-8625, TYPE III, CLASS 2 (.002")
- CC** CHEMICAL FILM PER MIL-C-5541, CLASS 1A, CLEAR
- CG** CHEMICAL FILM PER MIL-C-5541, CLASS 1A, GOLD, NON ROHS COMPLIANT
- EN** ELECTROLESS NICKEL PER MIL-C-26074, CLASS 4, GRADE B, BRIGHT
- N** NICKEL PLATE PER QQ-N-290, CLASS 1, GRADE G, BRIGHT (.0002")