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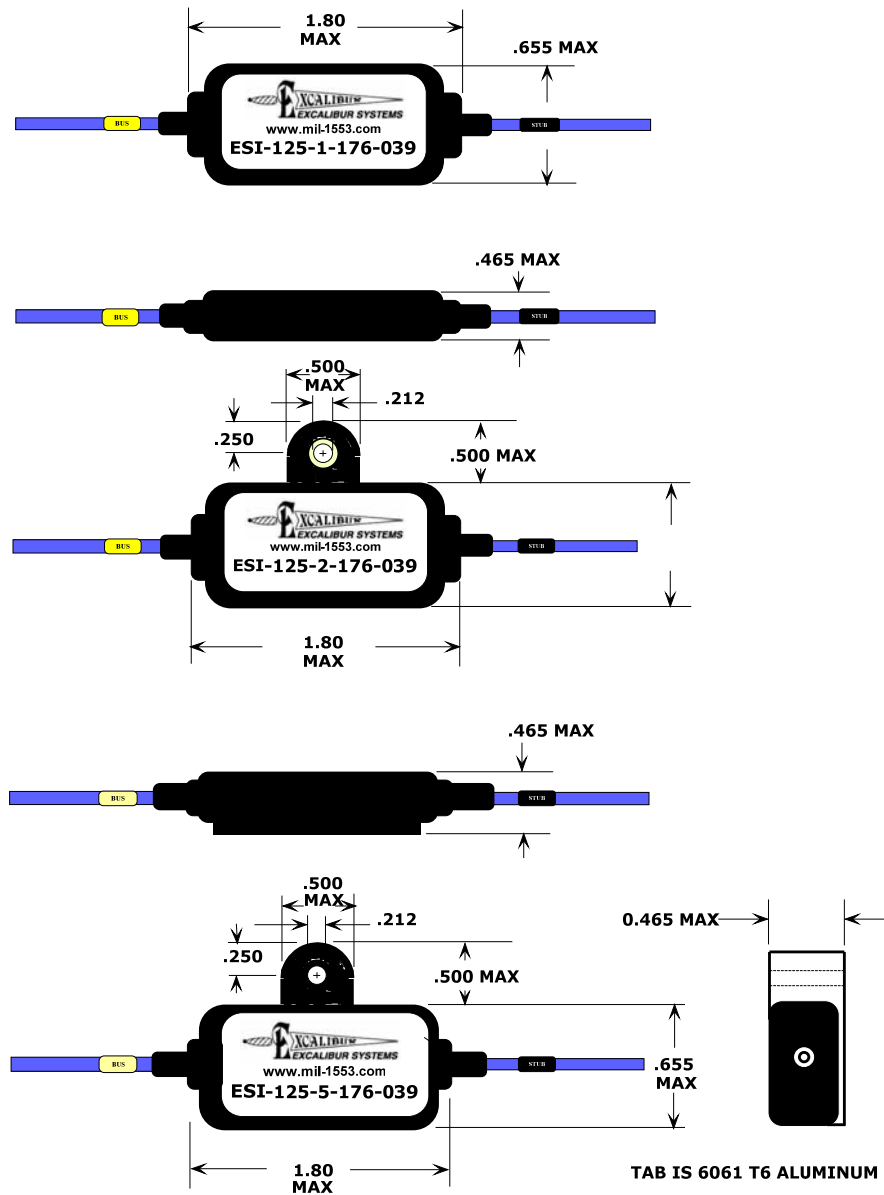
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## SPECIFICATIONS for ESI-125

### ONE STUB INTERNALLY TERMINATED INLINE COUPLER

#### MECHANICAL OUTLINE

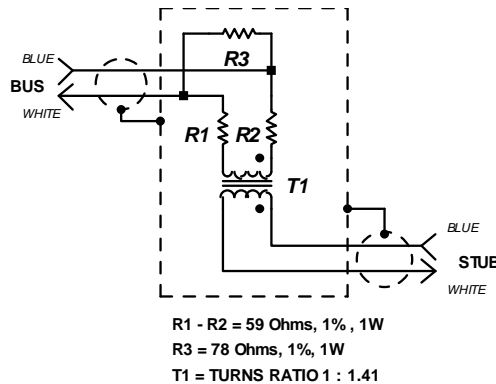


NEW TAB DESIGN

figure 1

## SPECIFICATIONS for ESI-125

### SCHEMATIC DIAGRAM



*figure 2*

**1.0 REQUIREMENTS:**

- 1.1 DOCUMENT DESCRIBES THE REQUIREMENTS FOR INLINE INTERNALLY TERMINATED ONE STUB BUS COUPLERS FOR MIL-STD-1553 APPLICATIONS

**2.0 MECHANICAL SPECIFICATIONS:**

- 2.1 DESIGNS AND CONSTRUCTION – THE COUPLER SHALL WITHSTAND THE STATIC HANDLING, INSTALLATION, AND OPERATIONAL SERVICE AS SPECIFIED HEREIN. THE COUPLER SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF MIL-STD-454 FOR PROCESS, PARTS AND MATERIALS, DESIGN CONSTRUCTION AND WORKMANSHIP. THE ENCLOSURE SHALL BE A METAL ENCLOSURE WITH A PROTECTIVE ENVIRONMENTAL COVERING THAT IS FLAME, ACID AND FLUID RETARDANT

**3.0 ELECTRICAL SPECIFICATIONS:**

- 3.1 FREQUENCY RANGE: 75 kHz – 1.0 MHz  
 3.2 COMMON MODE REJECTION: -45.0 dB MIN. @ 1.0MHz.  
 3.3 DROOP: 20% MAX. (250kHz)  
 3.4 OVERSHOOT & RINGING: +/- 1.0V PEAK  
 3.5 TRANSFORMER RATIO: 1:1.41 +/- 3%  
 3.6 POWER RATING: 1-WATT MIN. FOR ISOLATION RESISTORS  
 3.7 DIELECTRIC STRENGTH: 500 Vrms BETWEEN CABLE SHIELD AND BUS AND STUB CONDUCTORS AND BETWEEN BUS AND STUB CONDUCTORS.  
 3.8 INSULATION RESISTANCE: GREATER THAN 1000 MEGOHMS AT 250 VDC BETWEEN CONDUCTORS AND SHIELD.

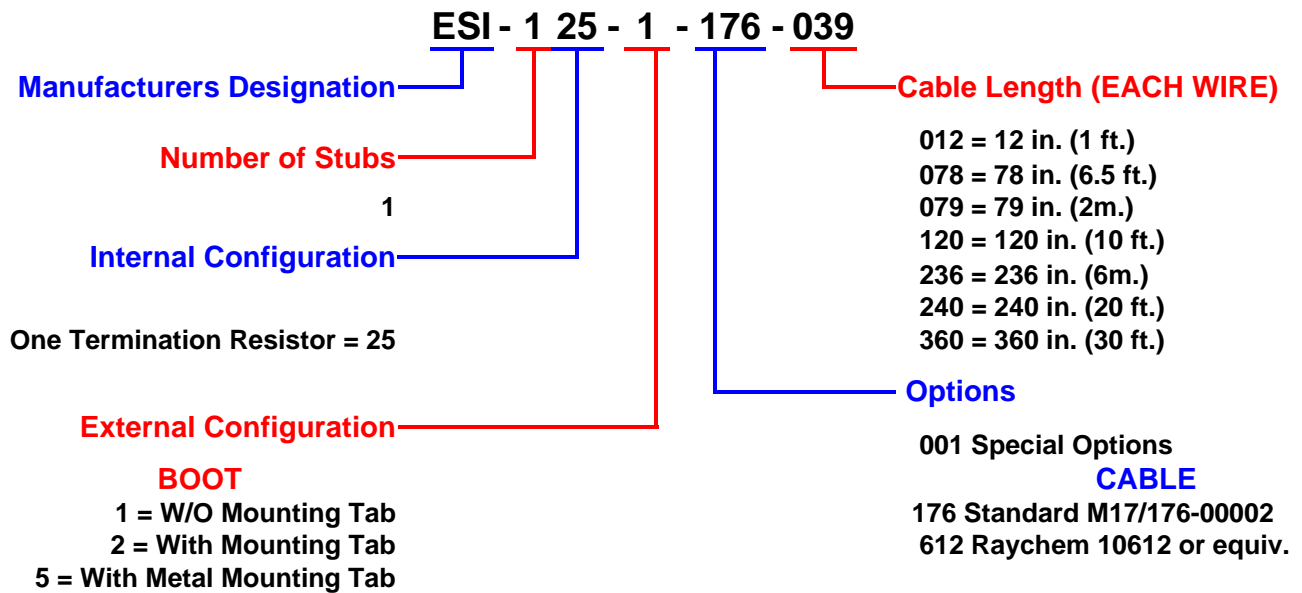
**4.0 ENVIRONMENTAL:**

- 4.1 OPERATING TEMPERATURE RANGE: -55 deg. C to +125 deg. C  
 4.2 DIELECTRIC WITHSTAND: MIL-STD-202, method 301; 500VAC, 2 mA leakage max.  
 4.3 INSULATION RESISTANCE: MIL-STD-202, method 302; 250 VDC, 1000MOhms min.  
 4.4 PULL STRENGTH: Steady load of 12 lbs. on each cable  
 4.5 LIFE: MIL-202, method 108; 1000 hours at 125° C  
 4.6 VIBRATION: MIL-STD-202, method 204, condition B, 12 hours per axis  
 4.7 SHOCK: MIL-STD-202, method 213, condition I  
 4.8 THERMAL SHOCK: MIL-STD-202 method 107, condition B, -65° C to 125° C 10 cycles  
 4.9 MOISTURE RESISTANCE: MIL-STD-202, method 106, 10 cycles  
 4.10 RESISTANCE TO SOLVENTS: MIL-STD-202, method 106  
 4.11 ALTITUDE: MIL-STD-202, condition B, 0 to 40,000 feet

## SPECIFICATIONS for ESI-125

- 5.0 **MARKINGS:**
- 5.1 ITEMS SHALL BE LEGIBLY AND PERMANENTLY MARKED WITH THE PART NUMBER AND SERIAL NUMBER.
  - 5.2 STUB CABLES SHALL BE IDENTIFIED WITH BLACK SHRINK TUBING

### PART NUMBER DESCRIPTION *Ordering Information*





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