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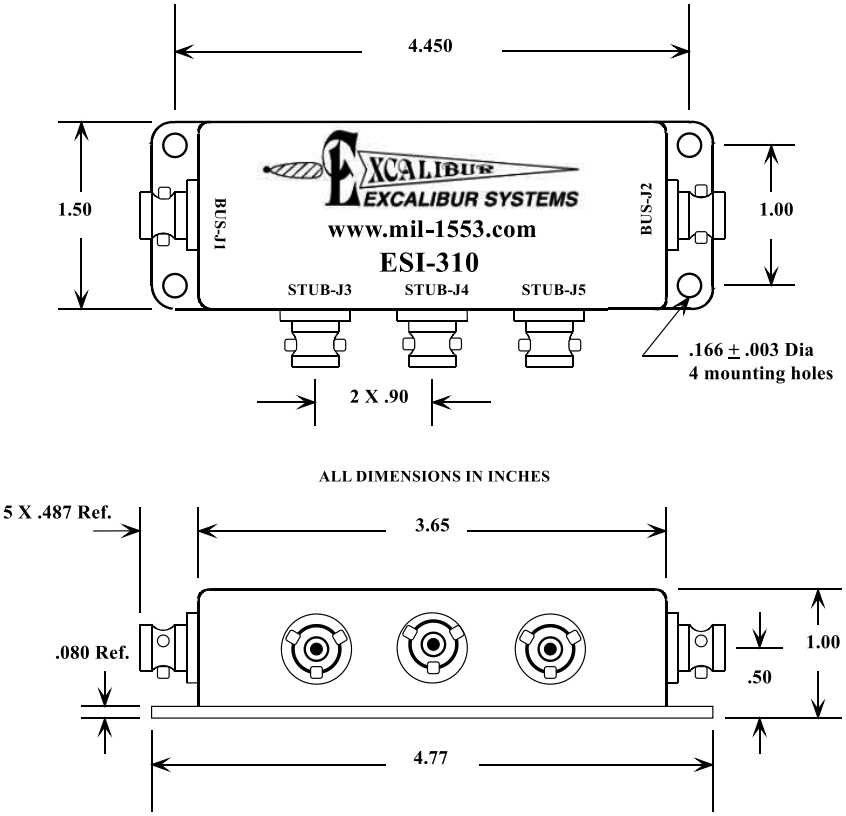
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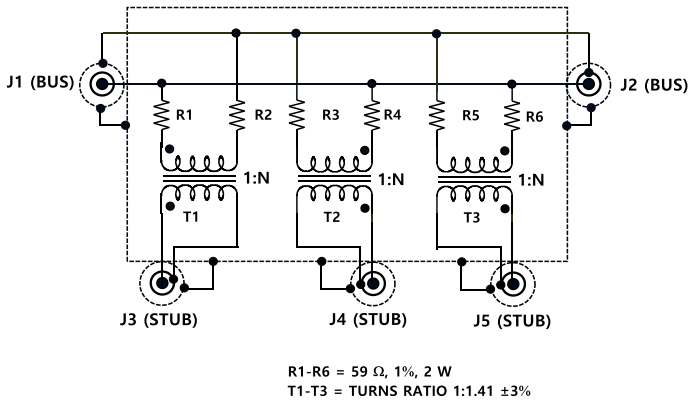
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SPECIFICATIONS for THREE STUB BOX COUPLERS

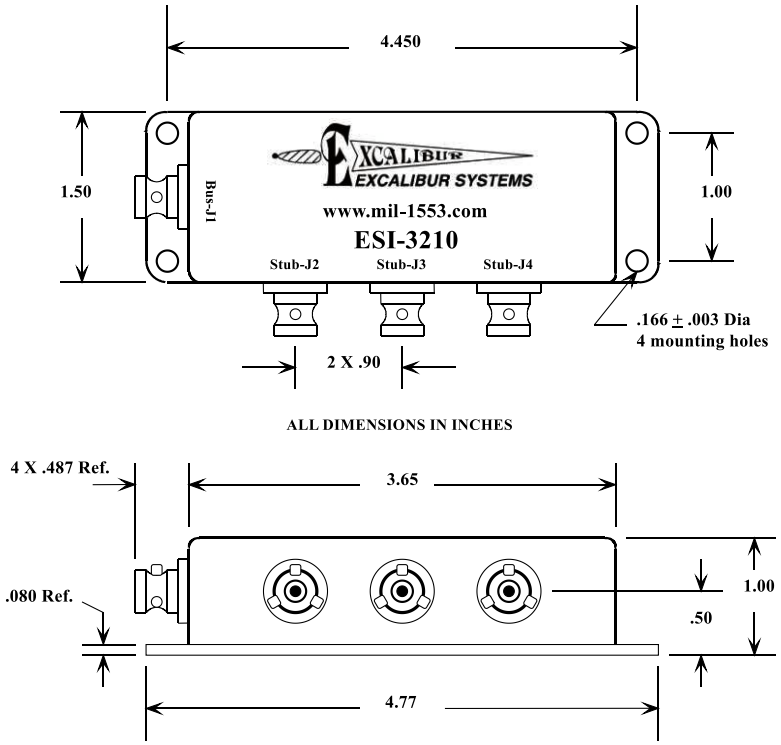


ESI-310 Mechanical Drawing
figure 1

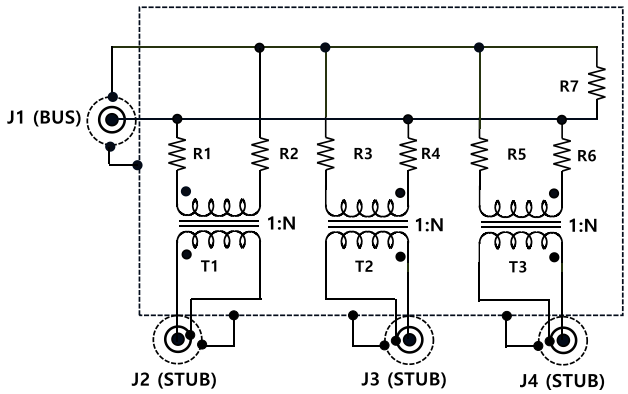


ESI-310 Schematic Diagram
figure 2

SPECIFICATIONS for THREE STUB BOX COUPLERS



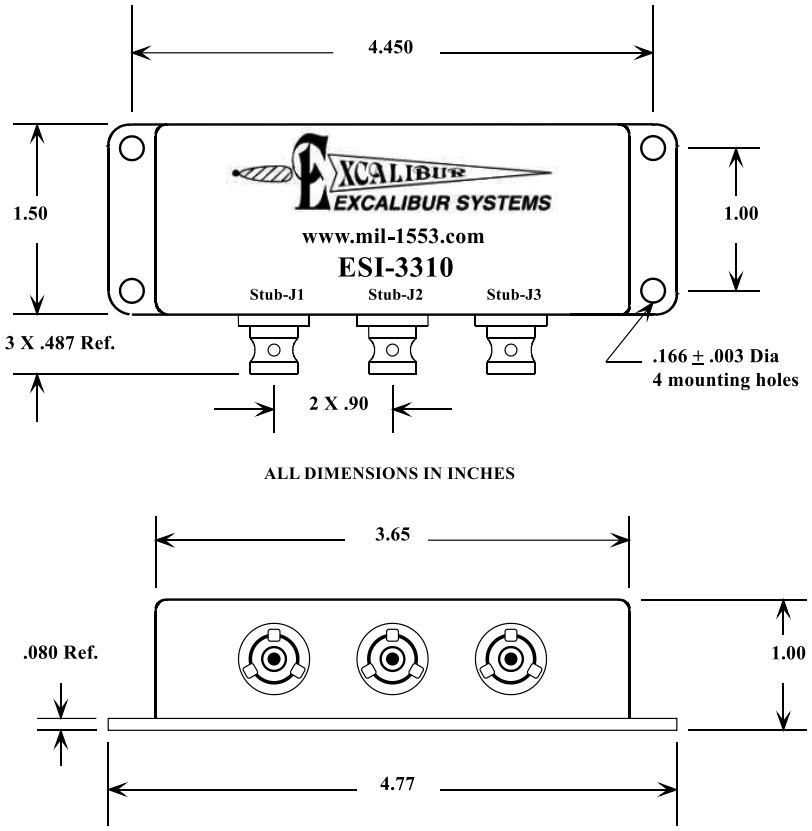
ESI-3210 Mechanical Drawing
figure 3



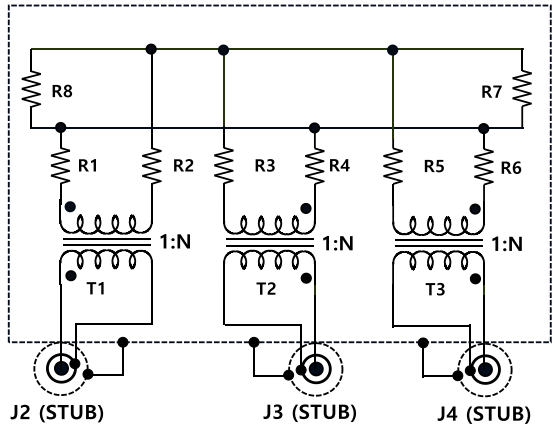
R1-R6 = 59 Ω, 1%, 2 W
R7 = 78.7 Ω, 1%, 2 W
T1-T3 = TURNS RATIO 1:1.41 ±3%

ESI-3210 Schematic Diagram
figure 4

SPECIFICATIONS for THREE STUB BOX COUPLERS



ESI-3310 Mechanical Drawing
figure 5



R1-R6 = 59 Ω, 1%, 2 W
R7-R8 = 78.7 Ω, 1%, 2 W
T1-T3 = TURNS RATIO 1:1.41 ±3%

ESI-3310 Schematic Diagram
Figure 6

SPECIFICATIONS for THREE STUB BOX COUPLERS

1.0 REQUIREMENTS:

1.1 DOCUMENT DESCRIBES THE REQUIREMENTS FOR THREE STUB BUS COUPLERS FOR MIL-STD-1553 APPLICATIONS

2.0 MECHANICAL SPECIFICATIONS:

2.1 DESIGN 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

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: 2-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

5.0 MARKINGS:

5.1 ITEMS SHALL BE LEGIBLY AND PERMANENTLY MARKED WITH THE MANUFACTURER'S NAME OR TRADEMARK, PART NUMBER, TERMINAL IDENTIFICATION, AND DATE CODE.

6.0 MECHANICAL SPECIFICATIONS:

6.1 CONNECTORS: J1 THRU J5 SEE ORDERING INFORMATION; DIFFERS BY PART NUMBER (TROMPETER OR EQUIV.).
MATING CONNECTOR: SEE ORDERING INFORMATION; DIFFERS BY PART NUMBER (TROMPETER OR EQUIV.)
6.2 MATERIAL:
6.2.1 ENCLOSURE: ALUMINUM .050 THK.
6.2.2 MOUNTING PLATE: ALUMINUM .080 THK.
6.2.3 BLUE ENAMEL (POWDER COATED)

Ordering Information

PART NUMBER	CONNECTOR	MATING CONNECTOR
ESI-310/3210/3310	BJ770 (MINATURE)	PL75
ESI-320/3220/3320	BJ377 (MINATURE THREADED)	PL375
ESI-330/3230/3330	BJ157 (SUB-MINATURE)	PL155
ESI-340/3240/3340	BJ3157 (SUB-MINATURE THREADED	PL3155
ESI-350/3250/3350	BJ77FL (MINATURE FOUR LUG)	PL75FL

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