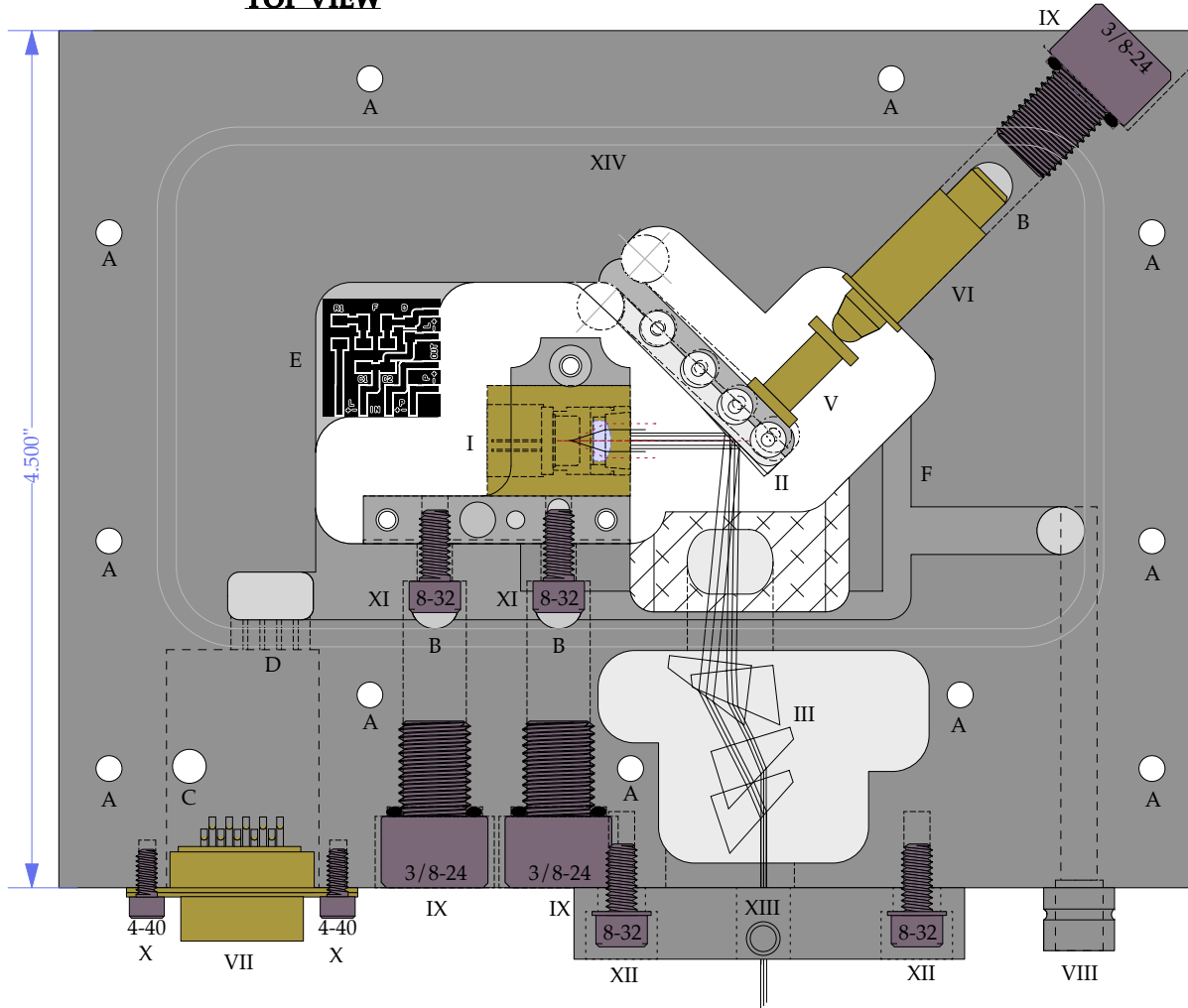
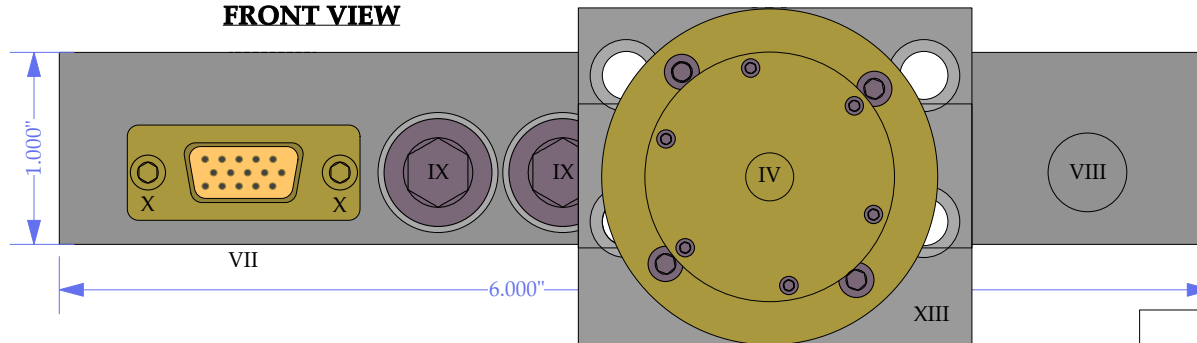


TOP VIEW



FRONT VIEW



NOTES:

- A: 8-32 tapped holes for mounting lids.
- B: $\varnothing 1/4$ " holes for venting screws.
- C: $\varnothing 0.177$ " hole to pass TEC current wires to underside of main cavity.
- D: Five $\varnothing 0.063$ " holes to function as wire feedthroughs.
- E: Shelf for laser-head protection circuit board.
- F: $1/8$ " deep venting channel, which also functions to run wires to the piezo and temperature sensors.

PERIPHERALS:

- I: Diode collimation tube with optic; Thorlabs P/N LT230P-B.
- II: Holographic diffraction grating, lines/mm determined by desired wavelength. Custom size (12mm x 6mm x 3mm) available through Newport.
- III: AR coated anamorphic prism pair; Thorlabs P/N PS871-B.
- IV: Oz Optics pigtailed PM fiber coupler (with hardware).
- V: Low-voltage stacked Piezoelectric actuator from Noliac; P/N SCMA (5 mm x 5 mm x 10 mm; 60 V max voltage; 1000 N blocking force).
- VI: $1/4$ -100 fine adjustment screw, sleeve diameter $\varnothing 0.343 \pm 0.001$ "; New Focus P/N 9376-K. Cut hole $\varnothing 0.345 \pm 0.001$ " for tight fit.
- VII: D-sub 15 contact female connector, shell size E.
- VIII: Built-in $1/4$ " vacuum seal-off valve (see Cryocomp P/N V1021-1) to be used with a valve operator (Crycomp P/N V1025-3).
- IX: $3/8$ -24 x 0.5" stainless steel socket-head cap screw, with $\varnothing 3/8$ ID $1/16$ " thick Viton O-ring.
- X: 4-40 x 0.25" stainless steel socket-head cap screw.
- XI: 8-32 x 0.375" stainless steel socket-head cap screw.
- XII: 8-32 x 0.375" stainless steel socket-head cap screw, with narrow profile ($\varnothing 0.310$ " OD) washer.
- XIII: Optical isolator adapter plate (see additional drawings).
- XIV: Viton O-ring, 4-1/2" ID $3/32$ " thick, McMaster P/N 1201T827. Inserted in grooves on lids.

UNIBODY LITTROW LASER -- ASSEMBLY DRAWING

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3/24/11