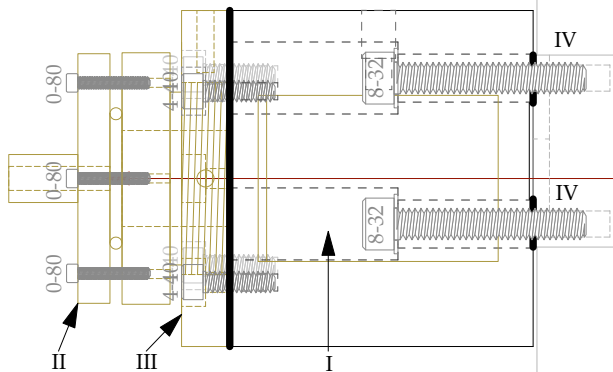
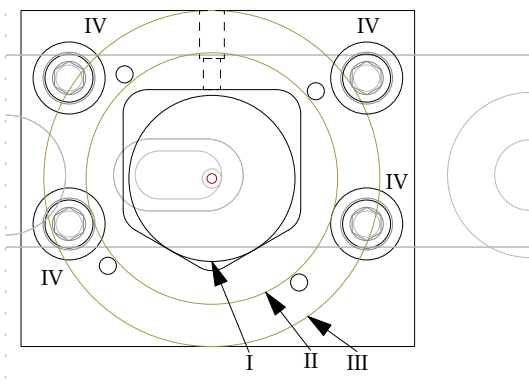


### ASSEMBLY



## UNIBODY LITTROW LASER -- ISOLATOR ADAPTER II

E. COOK, P. MARTIN, D. STECK

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### NOTES:

- Cavity thru piece, corner fillets  $\varnothing 0.250$ "
- 8-32 clearance, extra loose fit ( $\varnothing 0.250$ " ), with loose counterbore  $\varnothing 0.375$ " ,  $0.875$ " deep (screw requires a  $0.310$ " outer diameter washer for assembly). (x4)
- 4-40 tapped  $0.5$ " deep (x4, located on square side length  $1$ " rotated  $5$  deg clockwise). Holes not included in side view for clarity.
- 8-32 clearance, free fit, to  $0.250$ " deep, then 8-32 tapped through to cavity A.
- $0.500$ " wide relief cut,  $0.020$ " deep. On back of part and centered as shown.
- $0.750$ " wide relief cut,  $0.020$ " deep. On front of part and centered as shown.

### PERIPHERALS:

- OFR body type II isolator, Thorlabs P/N IO-3D-(wavelength)-VLP
- Fiber coupler assembly: tilt plate with FC connectorized fiber port, Oz Optics
- Fiber coupler assembly to laser head adapter Oz Optics adapter #15.
- 8-32 x  $1$ " ss socket-head cap screw, w/ narrow profile ( $\varnothing 0.310$ " OD) washer.

### ADDITIONAL NOTES:

- Material is 6061-T6 aluminum. Starting block is  $1.75$ " x  $2.05$ " x  $1.60$ " .
- Standard tolerance is  $0.005$ " unless otherwise noted.
- Surfaces marked "contact surface" must be made very flat (finishing pass with end mill, as little chatter as possible, lapped).