

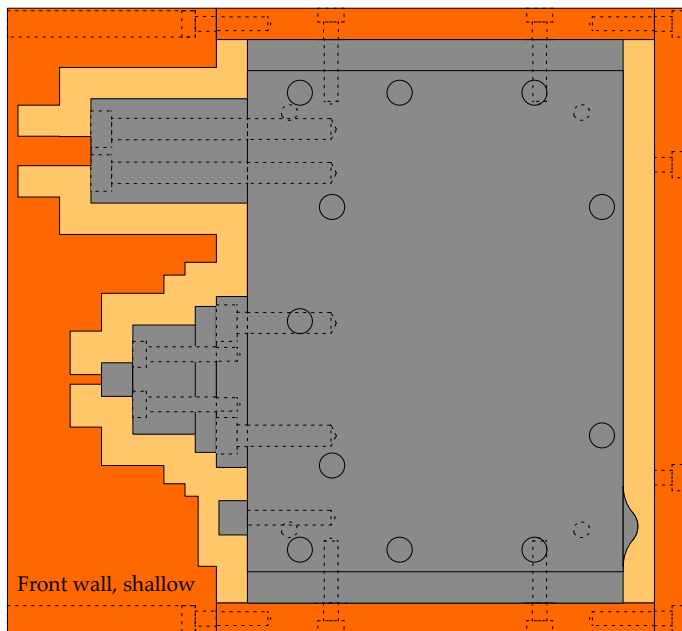
## LASER SILICONE COVER -- ASSEMBLY

P. MARTIN

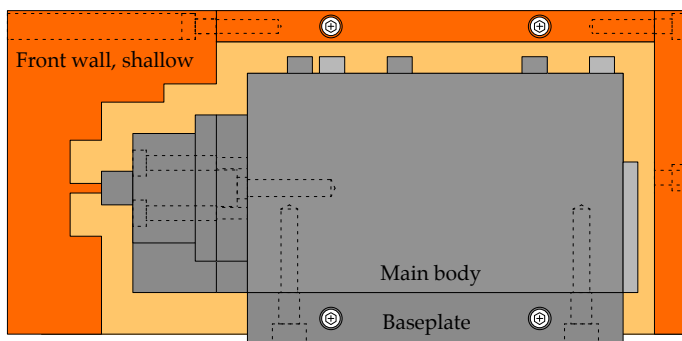
09/01/10

Using front wall designed for 0.375" isolator mold

**TOP VIEW\***

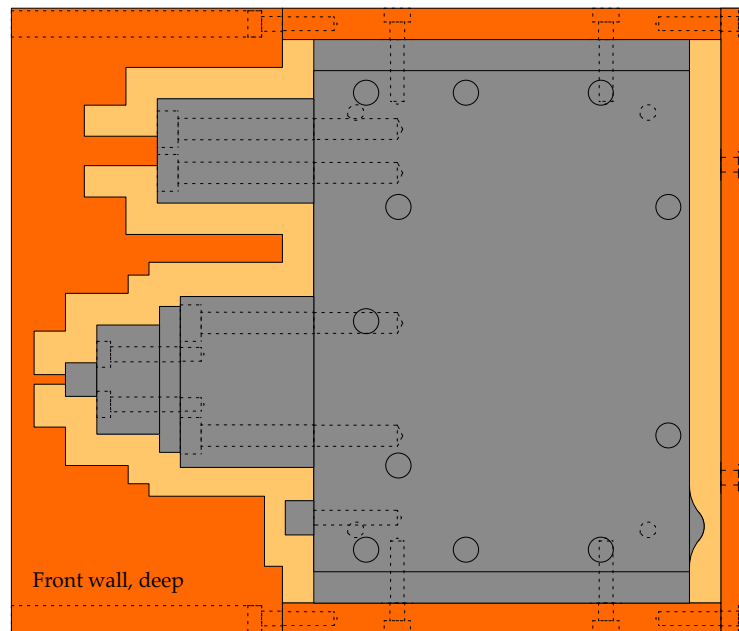


**SIDE VIEW\***

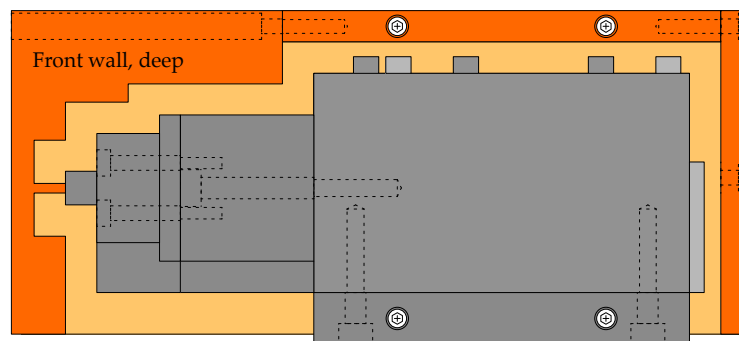


Using front wall designed for 1.600" isolator mold

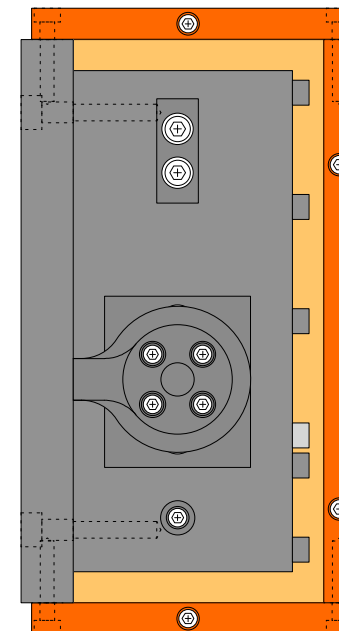
**TOP VIEW\***



**SIDE VIEW\***



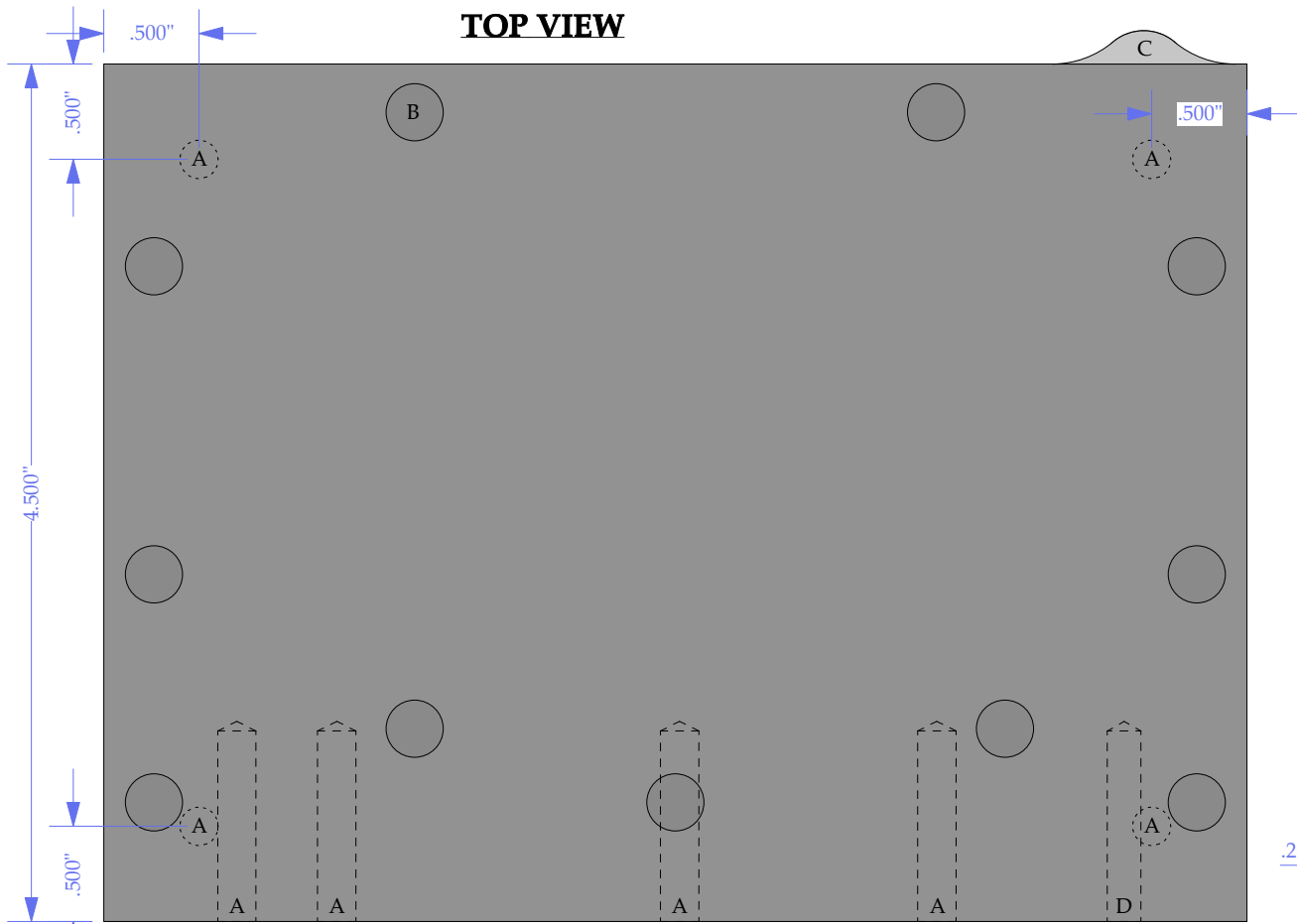
**FRONT VIEW\***



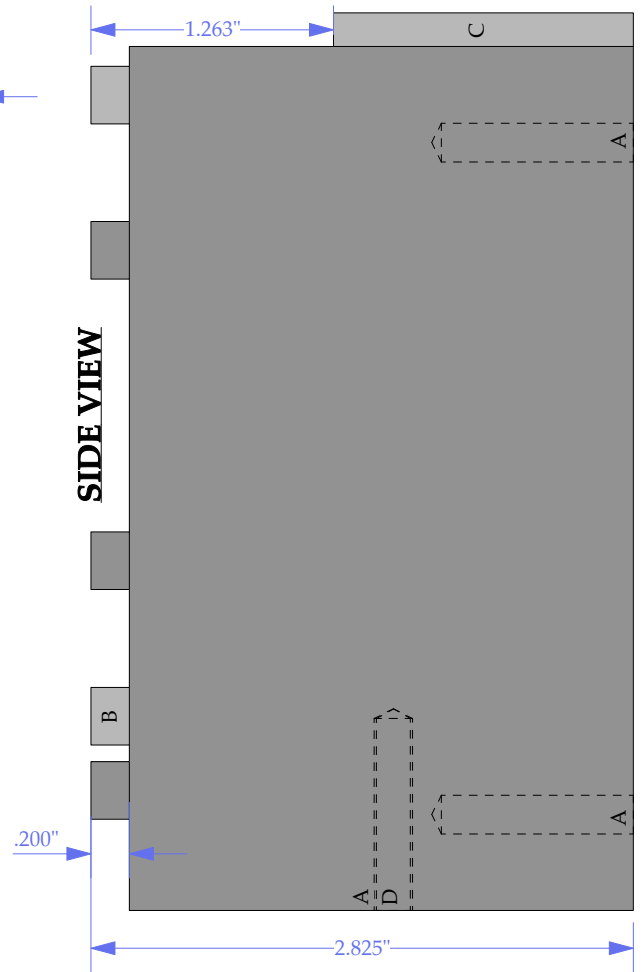
(same view for each front)

\*all internal views are cross sectional, through the fiber coupler center

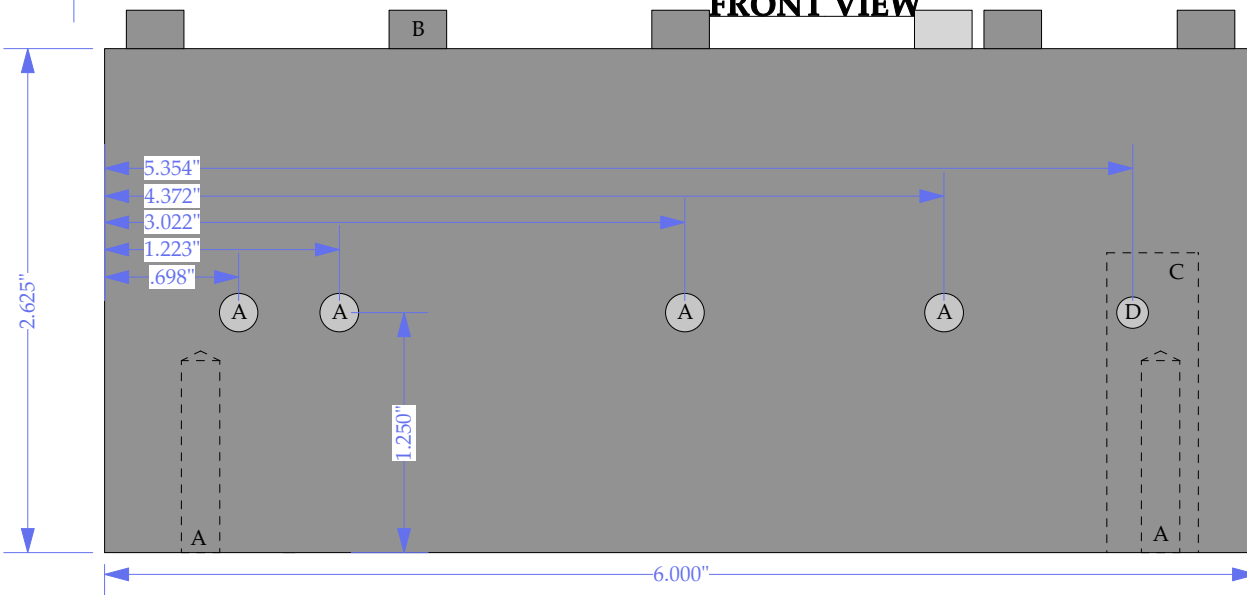
**TOP VIEW**



**SIDE VIEW**



**FRONT VIEW**



**NOTES:**

- A: 1/4-20 tapped, 1" deep.
- B: "Islands" left after CNC machining, 0.200" tall.
- C: Creates space for angled grating screw.
- D: 8-32 tapped, 1" deep.

**ADDITIONAL NOTES:**

1. Material is Delrin (any color). Starting block is 6" x 4.675" x 2.825".
2. Standard tolerance is 0.005" unless otherwise noted.
3. See 3D IGES drawing for CNC from above.

**LASER SILICONE MOLD -- MAIN BODY**

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## **TOP VIEW**



## **FRONT VIEW**



### **NOTES:**

- A 1/4-20 clearance through part with  $\varnothing$  0.438" counterbore, 0.250" deep.
- B. 8-32 tapped, 1/2" of useable thread.

### **ADDITIONAL NOTES:**

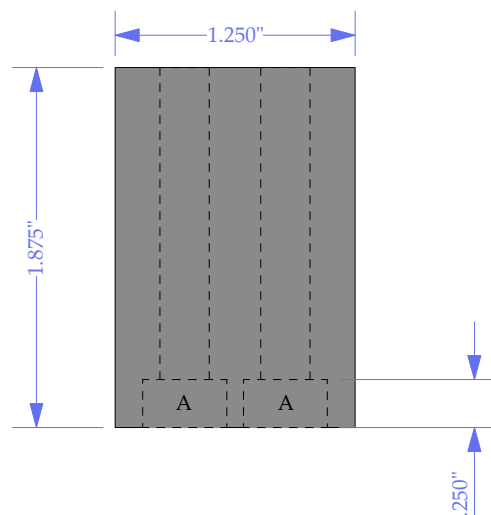
- 1. Material is Delrin (any color). Starting block is 6.75" x 4.5" x 0.625".
- 2. Standard tolerance is 0.005" unless otherwise noted.

**LASER SILICONE COVER -- BODY BASE**

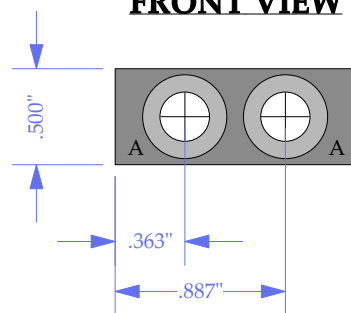
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### TOP VIEW



### FRONT VIEW



#### NOTES:

- A 1/4-20 clearance through part with  $\varnothing$  0.438" counterbore, 0.250" deep.

#### ADDITIONAL NOTES:

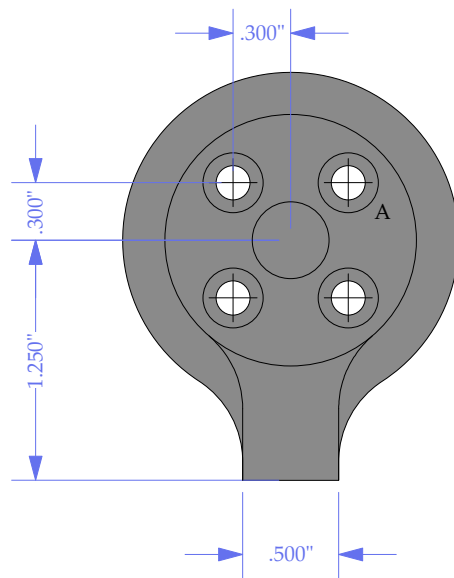
1. Material is Delrin (any color). Starting block is 1.875" x 1.250" x 0.500".
2. Standard tolerance is 0.005".

### LASER SILICONE MOLD -- DSUB 15 MOLD

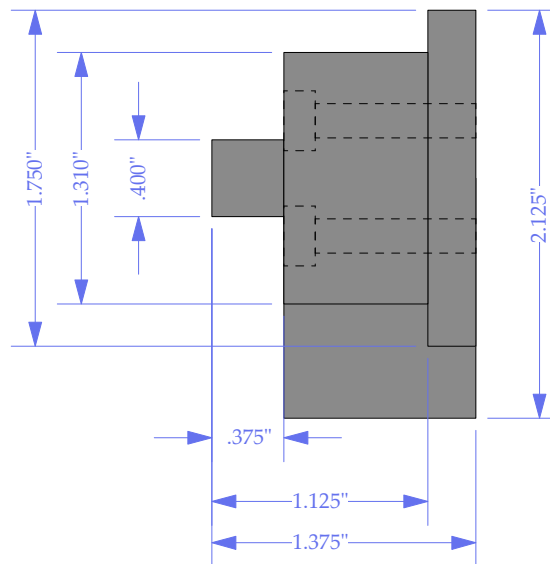
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**TOP VIEW**



**SIDE VIEW**



**NOTES:**

A: 8-32 clearance through part with  
Ø 0.313" counterbore, 0.164" deep.

**ADDITIONAL NOTES:**

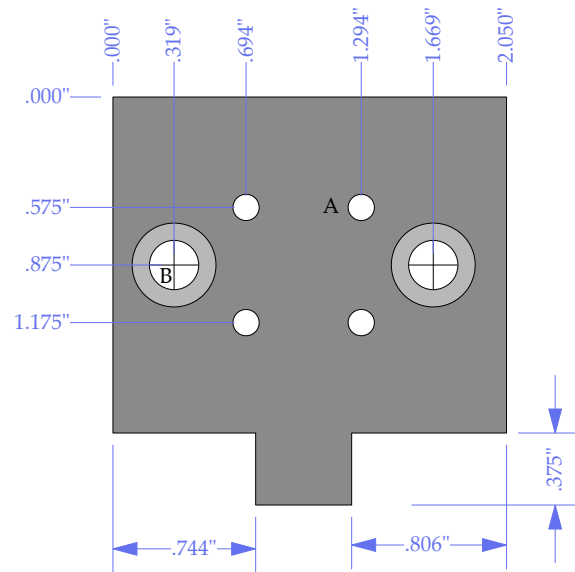
1. Material is Delrin (any color).  
Starting block is 2.125" x 1.75" x 1.375".
2. Standard tolerance is 0.005" unless  
otherwise noted. Holes should  
match up with isolator mold.
3. Cut holes A first and use them to  
secure part in CNC machine
4. Fillets are drawn as Ø 0.5", but  
their accuracy and detail are  
unimportant.

**LASER SILICONE MOLD -- FIBER MOLD**

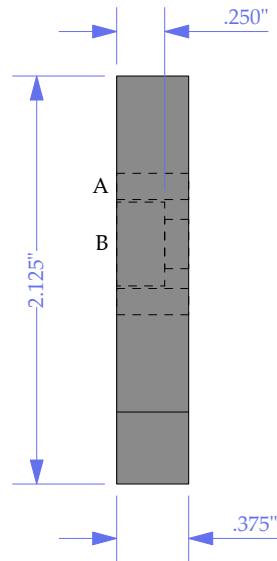
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## TOP VIEW



## SIDE VIEW



### NOTES:

- A 8-32 tapped, 1/2" of useable thread
- B.: 1/4-20 clearance through part with  $\varnothing$  0.438" counterbore, 0.250" deep.

### ADDITIONAL NOTES:

1. Material is Delrin (any color). Starting block is 2.125" x 2.05" x 0.375".
2. Standard tolerance is 0.005"; holes and narrow piece should match up with the fiber mould.
3. This isolator mold to be used with "aspirin tablet" optical isolators.

## LASER SILICONE MOLD -- ISLATOR MOLD, SHALLOW

P. MARTIN

09/01/10

Technical drawing of a mechanical part with dimensions and feature labels. The part is a dark gray rectangular block with a central vertical slot. The dimensions are as follows:

- Overall width: 2.050"
- Overall height: 1.175"
- Slot width: .744"
- Slot depth: .375"
- Distance from left edge to center of left hole: .744"
- Distance from right edge to center of right hole: .806"
- Distance from top edge to center of top hole: .575"
- Distance from bottom edge to center of bottom hole: .1175"
- Distance from left edge to center of left hole: .319"
- Distance from right edge to center of right hole: .1669"
- Distance from top edge to center of top hole: .1294"
- Distance from bottom edge to center of bottom hole: .000"

Feature labels:

- A: Top hole
- B: Left hole

Technical drawing of a rectangular plate. The overall width is 1.600". The overall height is 2.125". A vertical line is positioned 0.250" from the right edge. The area to the left of this line is divided into two sections: 'A' (top) and 'B' (bottom). Section A contains three horizontal dashed lines. Section B contains two horizontal dashed lines. The plate is shaded gray.

A 8-32 tapped, 1/2" of useable thread.

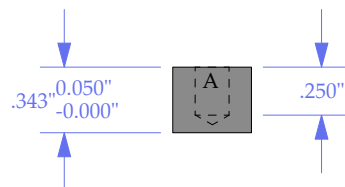
B.: 1/4-20 clearance through part with Ø 0.438" counterbore, 0.250" deep.

1. Material is Delrin (any color). Starting block is 2.125" x 2.05" x 1.6".
2. Standard tolerance is 0.005"; holes and narrow piece should match up with the fiber mould.
3. This isolator mold to be used with "OFR body type II" optical isolators.

## P. MARTIN

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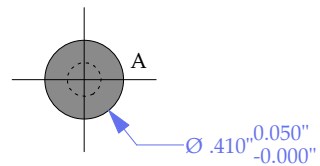
### **TOP VIEW**



### **NOTES:**

- A. 8-32 tapped 0.25" deep. Make sure tap drill hole doesn't go through the part.

### **FRONT VIEW**



### **ADDITIONAL NOTES:**

1. Material is Delrin (any color). Starting block is Ø0.41" x 0.343".
2. Piece can be larger than specified dimensions, but not smaller.
3. Part will be attached to main body using an 8-32 set screw.

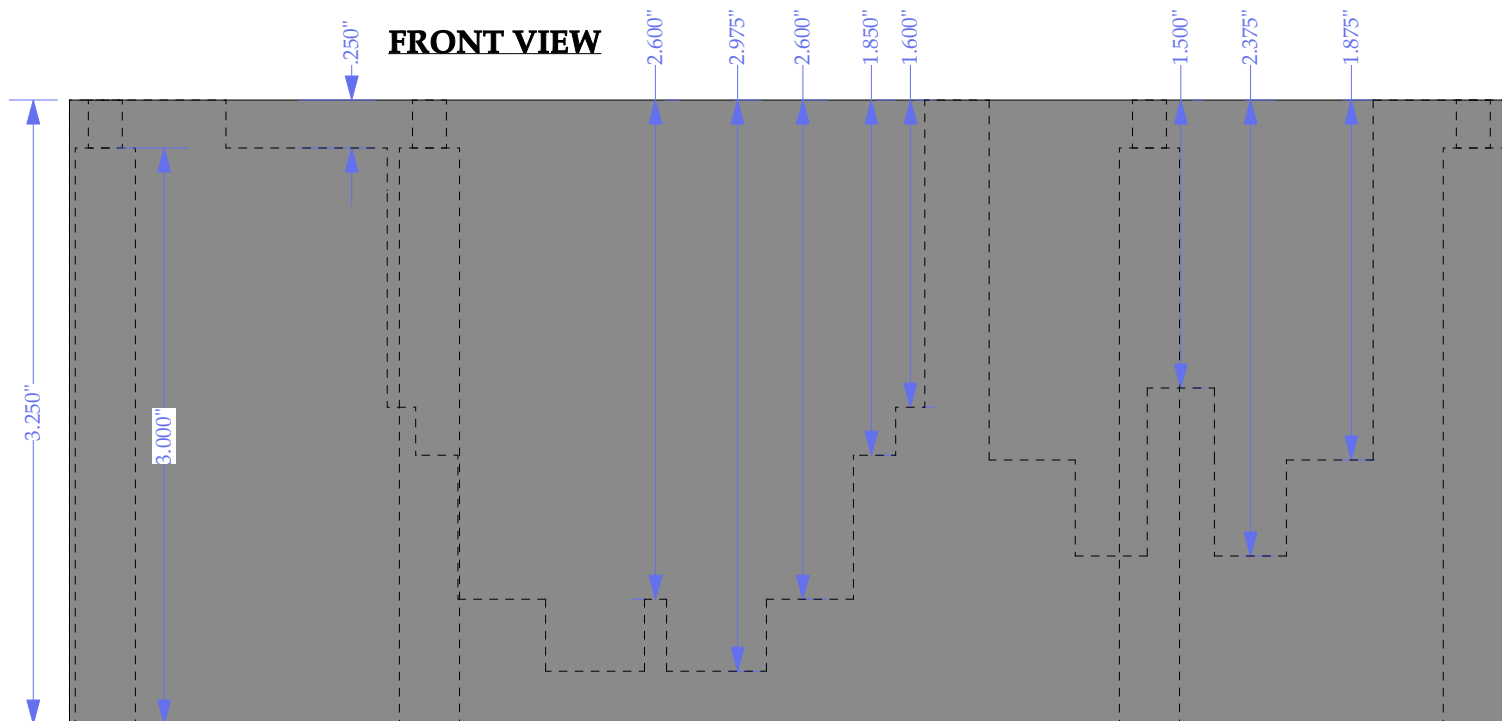
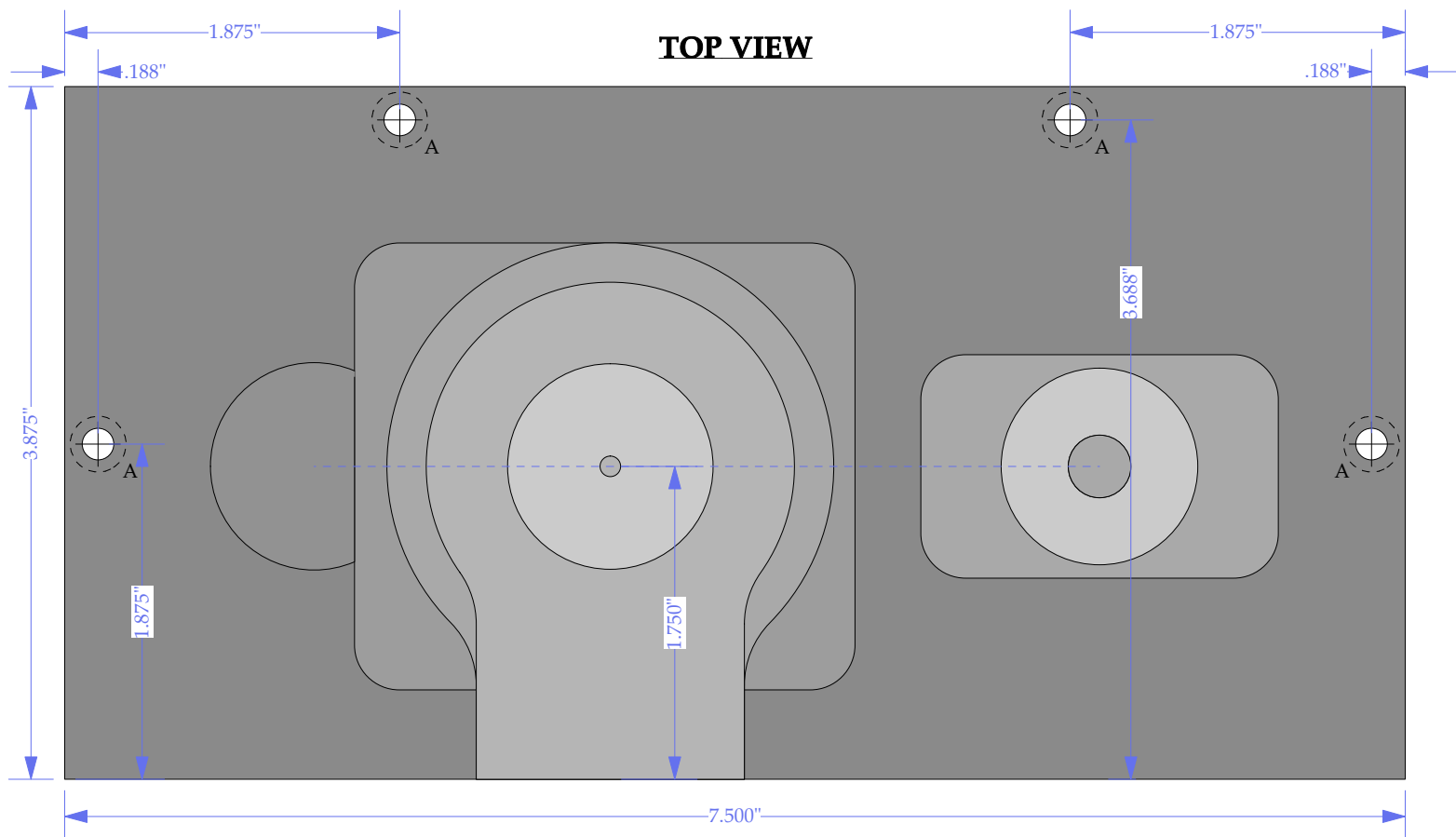
## **LASER SILICONE MOLD -- VALVE MOLD**

P. MARTIN

09/01/10







**NOTES:**

A: 8-32 clearance through part with  
 $\varnothing$  0.313" counterbore, 3" deep.

**LASER SILICONE MOLD -- FRONT WALL, DEEP**

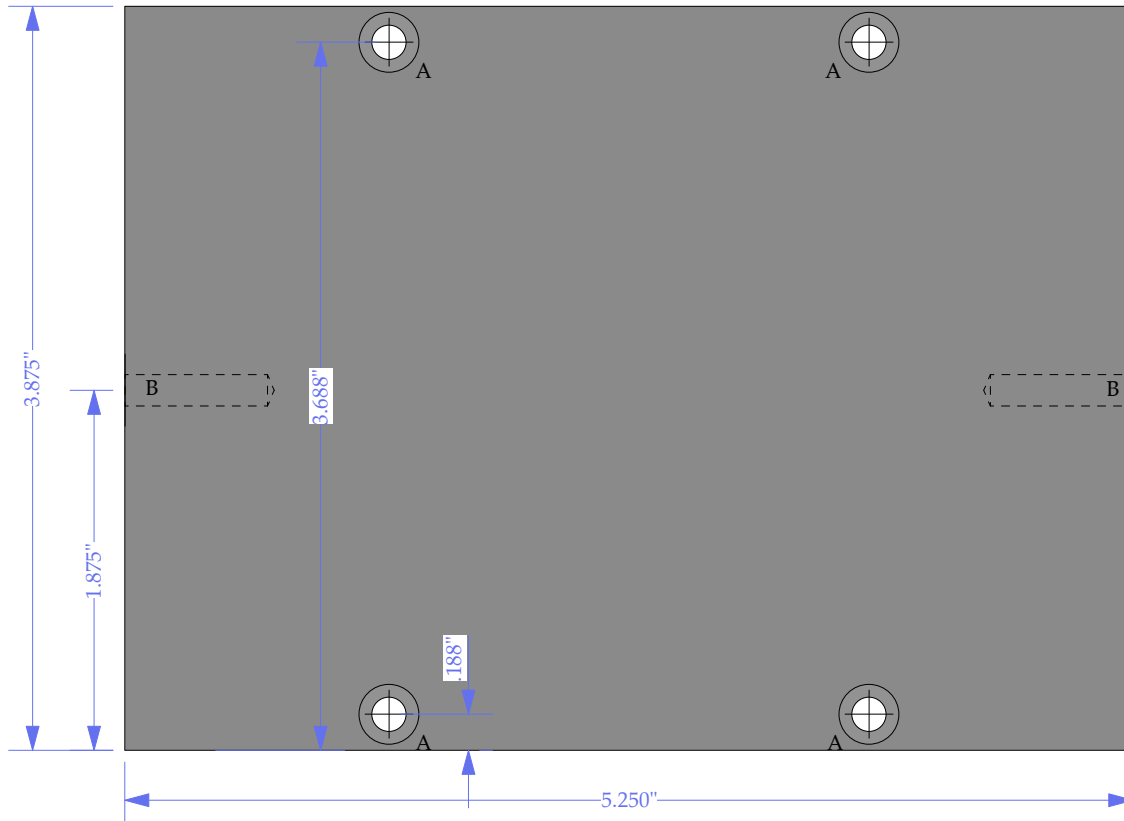
P. MARTIN

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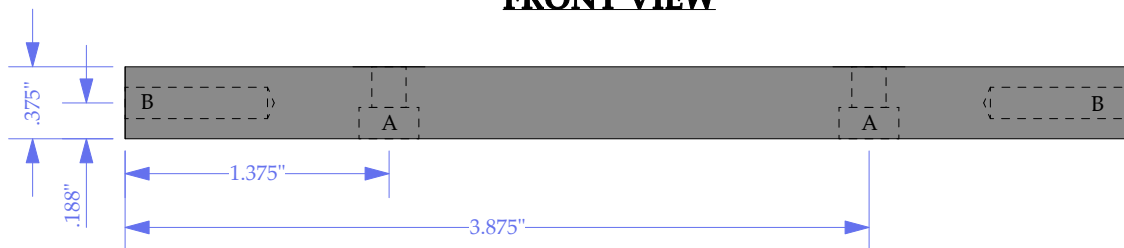
**ADDITIONAL NOTES:**

1. Material is Delrin (any color).  
 Starting block is 7.5" x 3.875" x 3.25".
2. Standard tolerance is 0.005" unless  
 otherwise noted.
3. This front face piece is to be used  
 with the 1.6" thick version of the  
 isolator mold

## TOP VIEW



## FRONT VIEW



### NOTES:

- A. 8-32 clearance through part with  $\varnothing$  0.313" counterbore, 0.164" deep.
- B. 8-32 tapped, 0.75" deep.

### ADDITIONAL NOTES:

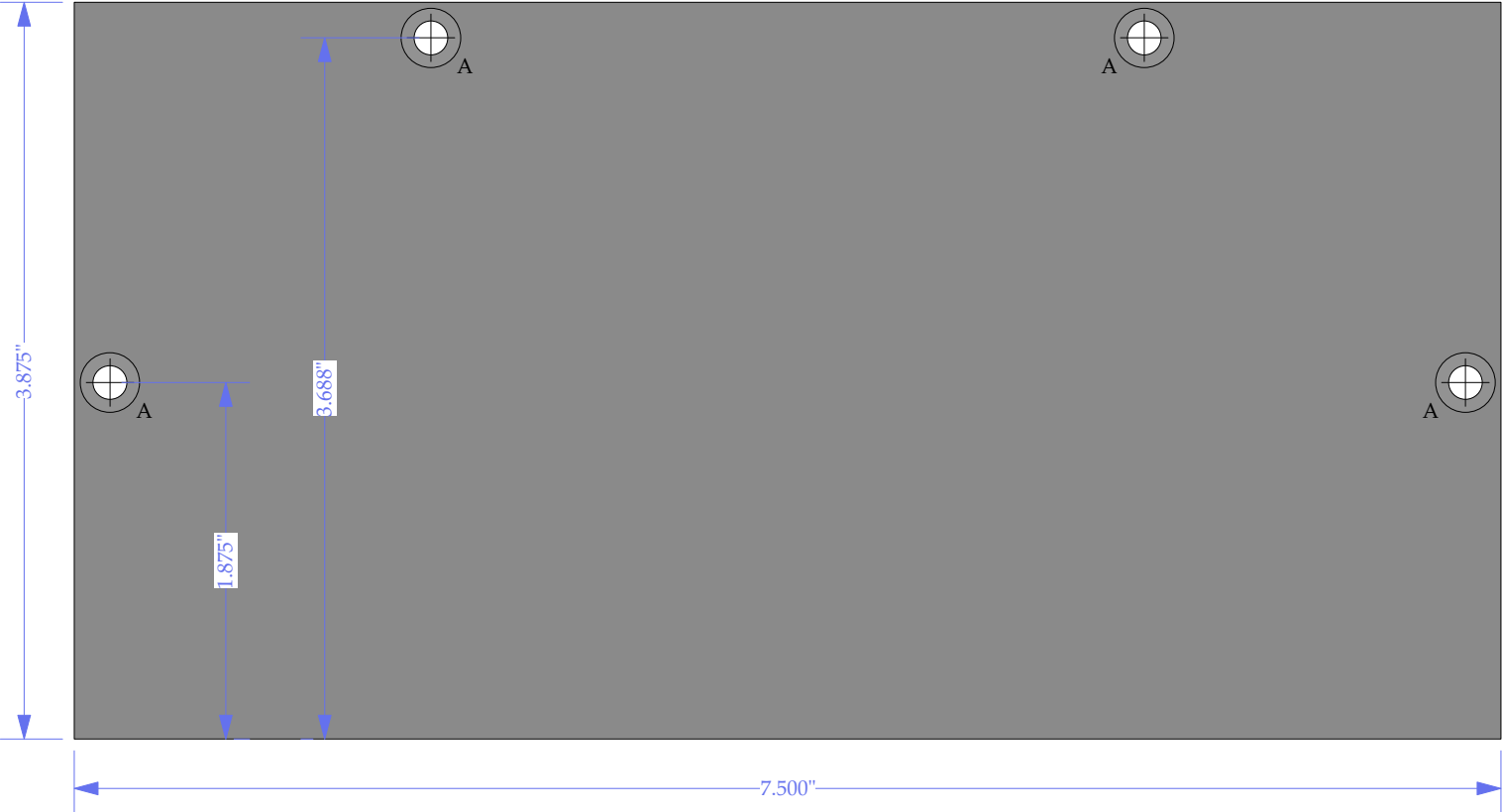
- 1. Material is Delrin (any color). Starting block is 5.625" x 3.875" x 0.375".
- 2. Standard tolerance is 0.005" unless otherwise noted.

### LASER SILICONE COVER -- SIDE WALL (x2)

P. MARTIN

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**TOP VIEW**



**FRONT VIEW**



**NOTES:**

A 8-32 clearance through part with  
Ø 0.313" counterbore, 0.164" deep.

**ADDITIONAL NOTES:**

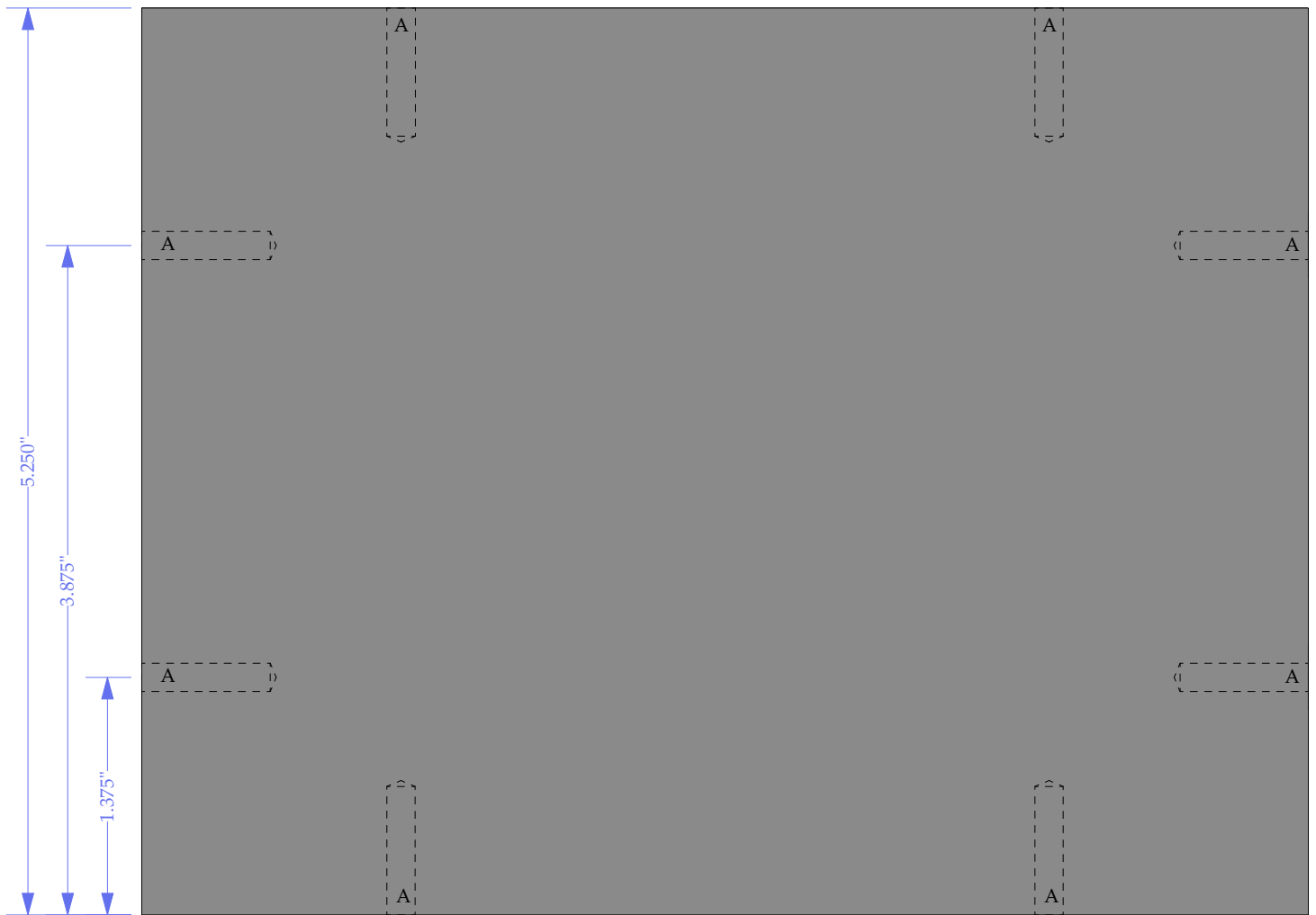
1. Material is Delrin (any color).  
Starting block is 7.5" x 4" x 0.375".
2. Standard tolerance is 0.005" unless  
otherwise noted.

**LASER SILICONE COVER -- REAR WALL**

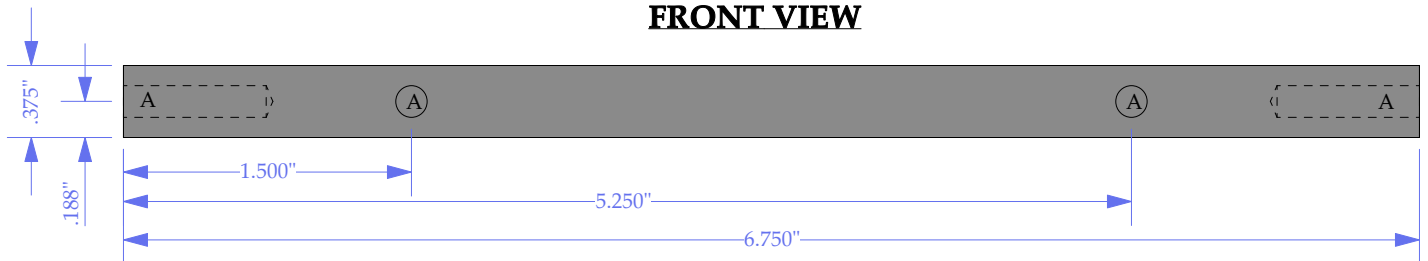
P. MARTIN

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## TOP VIEW



## FRONT VIEW



### NOTES:

- A. 8-32 clearance through part with  $\varnothing$  0.313" counterbore, 0.164" deep.
- B. 8-32 tapped, 0.75" deep.

### ADDITIONAL NOTES:

- 1. Material is Delrin (any color). Starting block is 6.750" x 5.250" x 0.375".
- 2. Standard tolerance is 0.005" unless otherwise noted.

### LASER SILICONE COVER -- TOP WALL

P. MARTIN

09/01/10