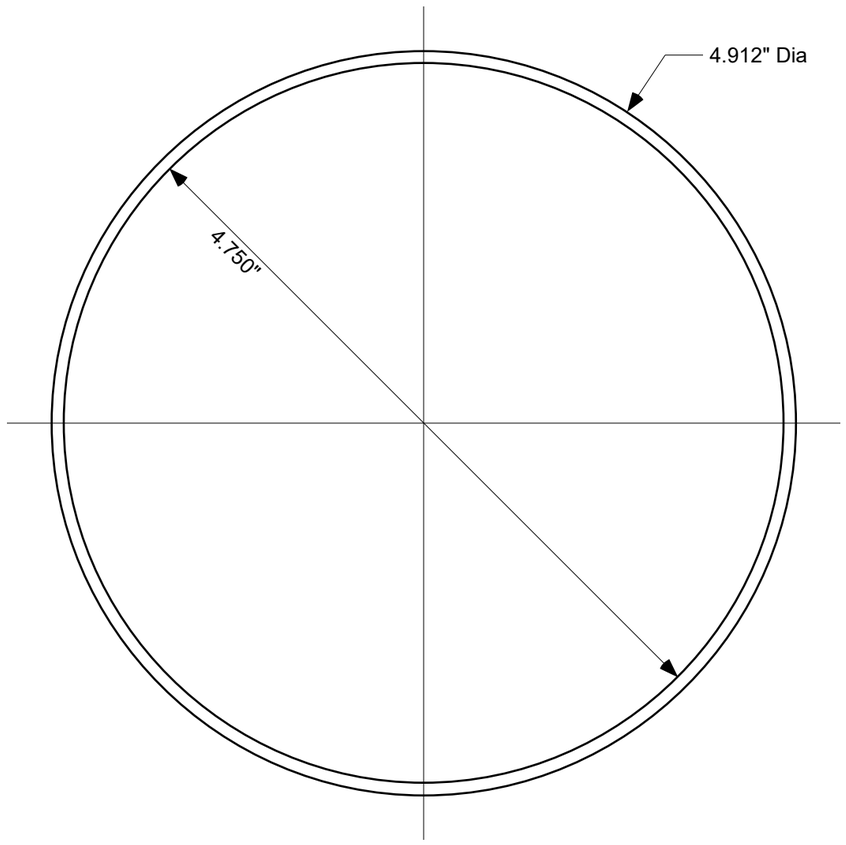
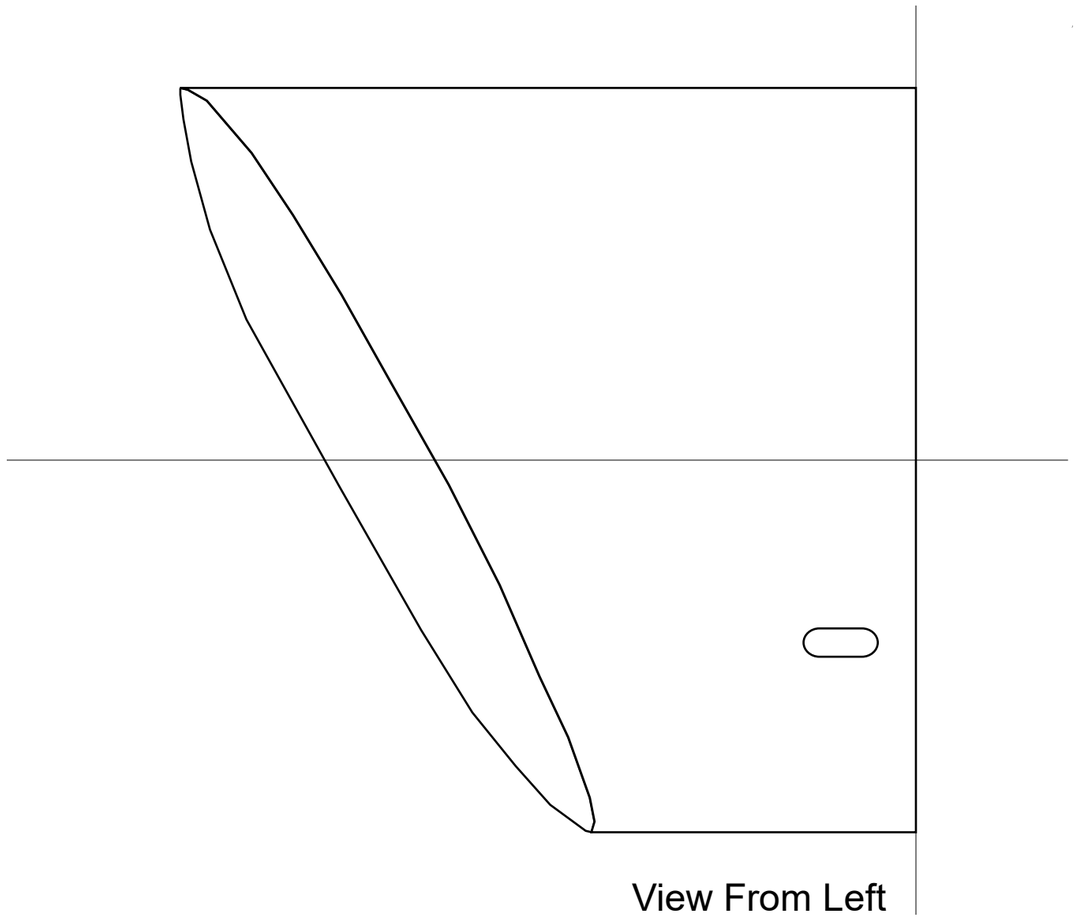
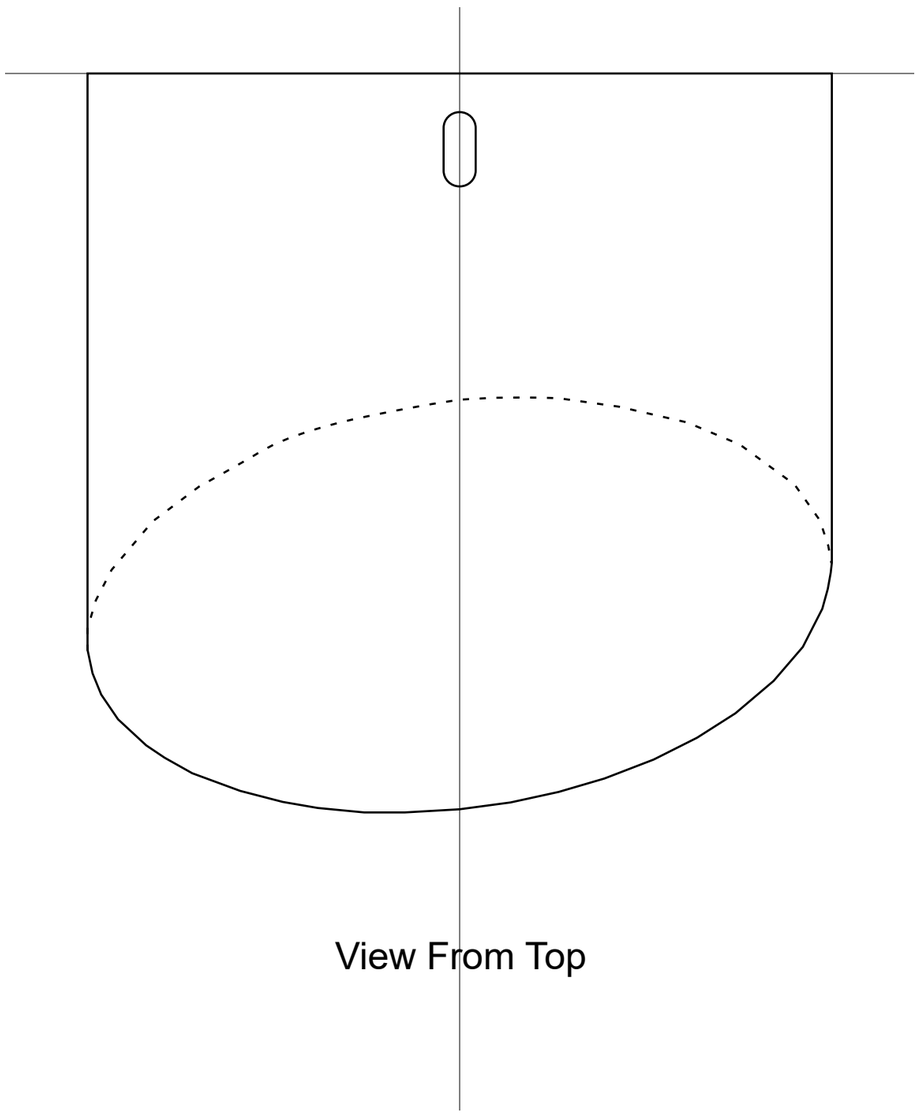
View From Front





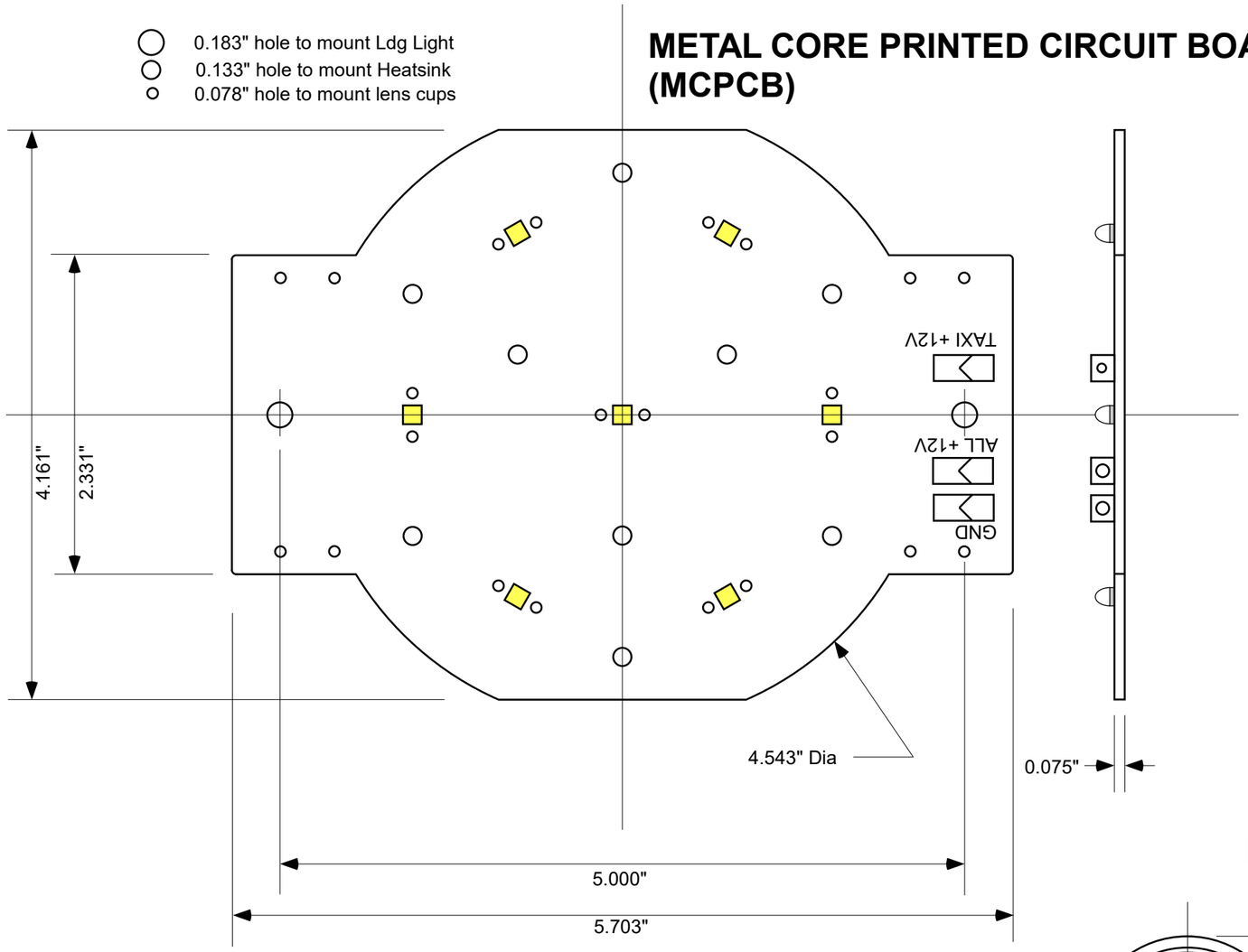
View From Left



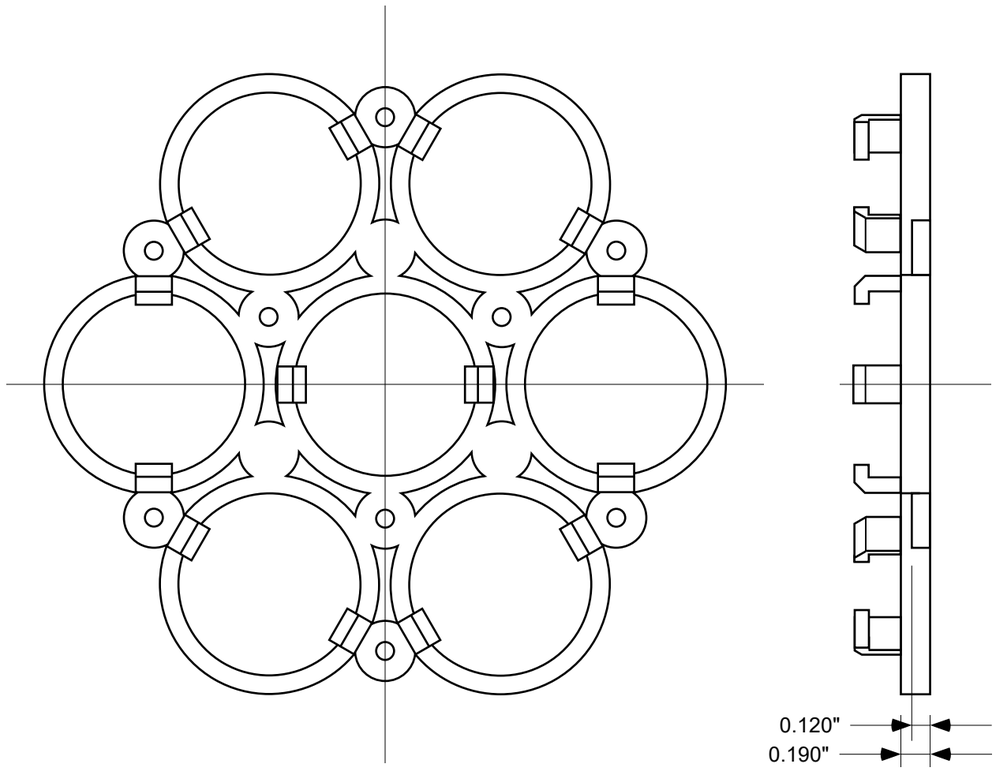
View From Top

ORIGINAL MOUNTING TUBE

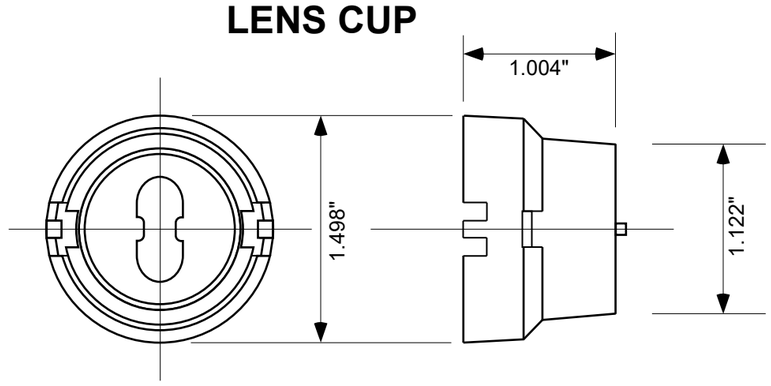
METAL CORE PRINTED CIRCUIT BOARD (MCPCB)



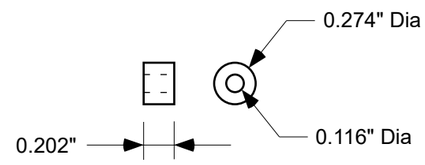
LENS HOLDER FRAME



LENS CUP

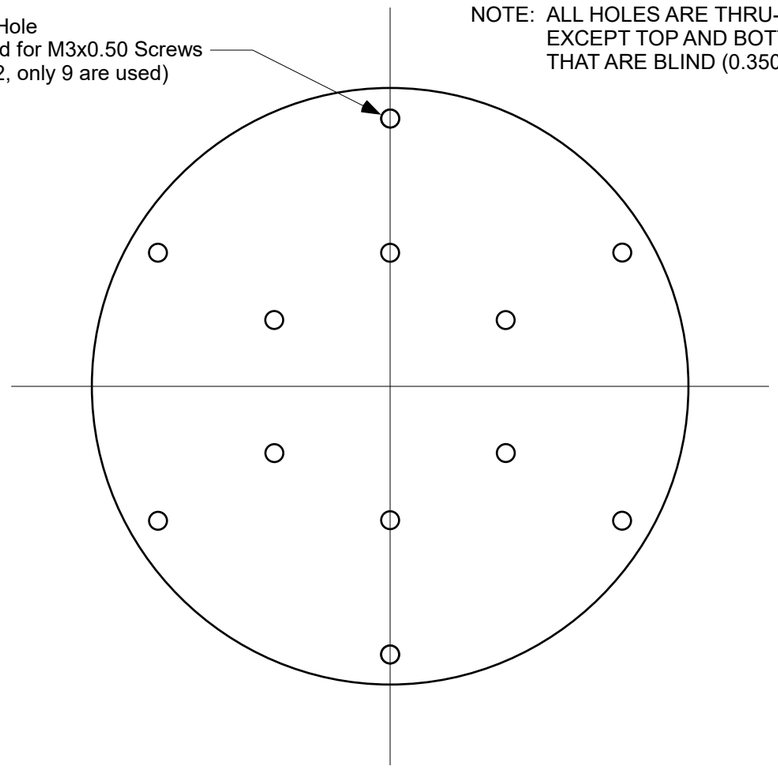


LENS HOLDER SPACERS (Qty: 9)

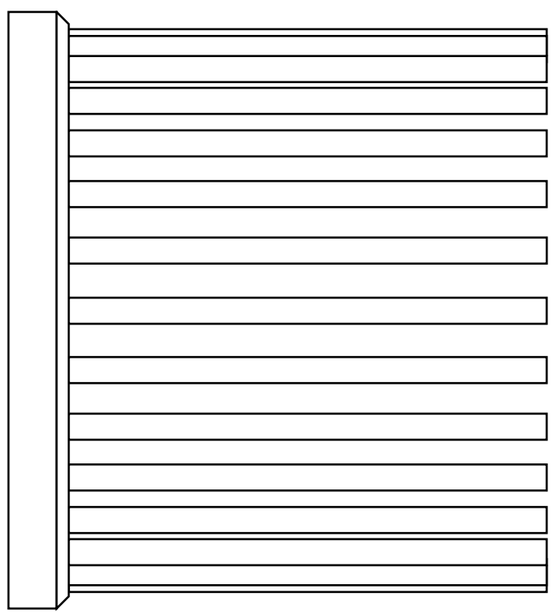


NOTE: LENSES DO NOT EXTEND BEYOND THE LENS CUP

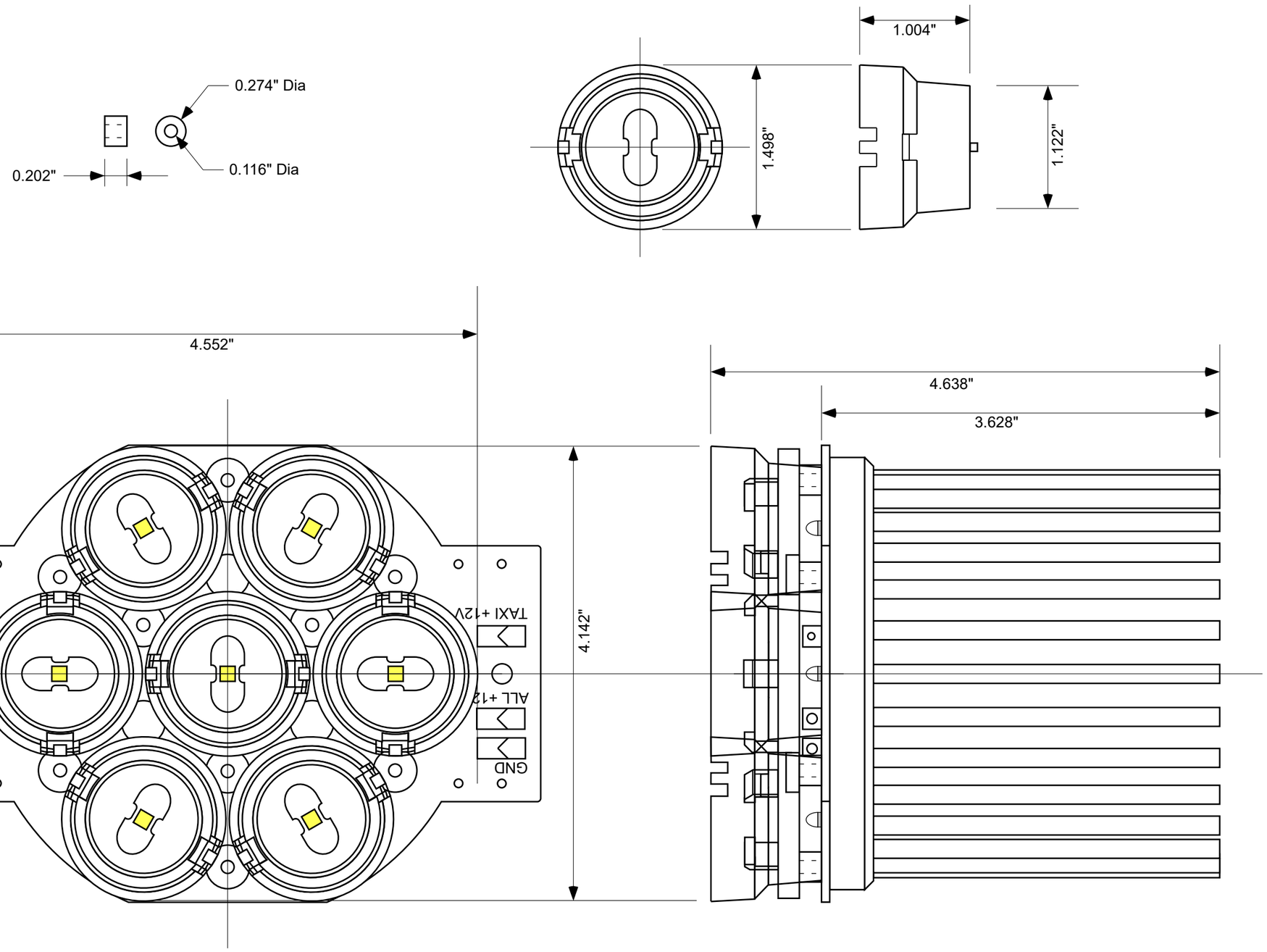
HEATSINK



NOTE: ALL HOLES ARE THRU-HOLE
EXCEPT TOP AND BOTTOM HOLES
THAT ARE BLIND (0.350" Depth)

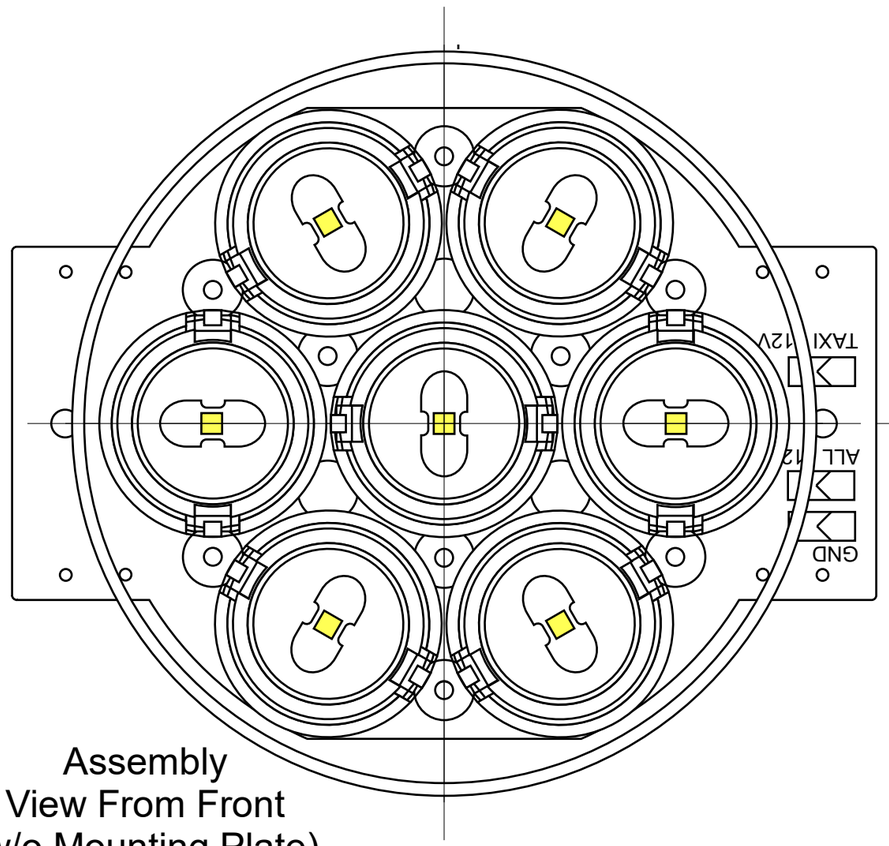


NOTE: 1. HEATSINK IS MADE UP OF AN ALUMINUM DISC OF 3.937" Dia X 0.398" Depth. ATTACHED TO THE DISC ARE 79 HEAT DISSIPATING ROUND RODS 0.172" Dia X 3.154" Long
2. HEATSINK RODS ARE ARRANGED IN 5 CONCENTRIC CIRCLES OF 28, 22, 16, 10, AND 3 RODS EACH FROM OUTSIDE TO INSIDE
3. THE ENTIRE SURFACE OF DISC AND RODS IS ANNODIZED FLAT BLACK



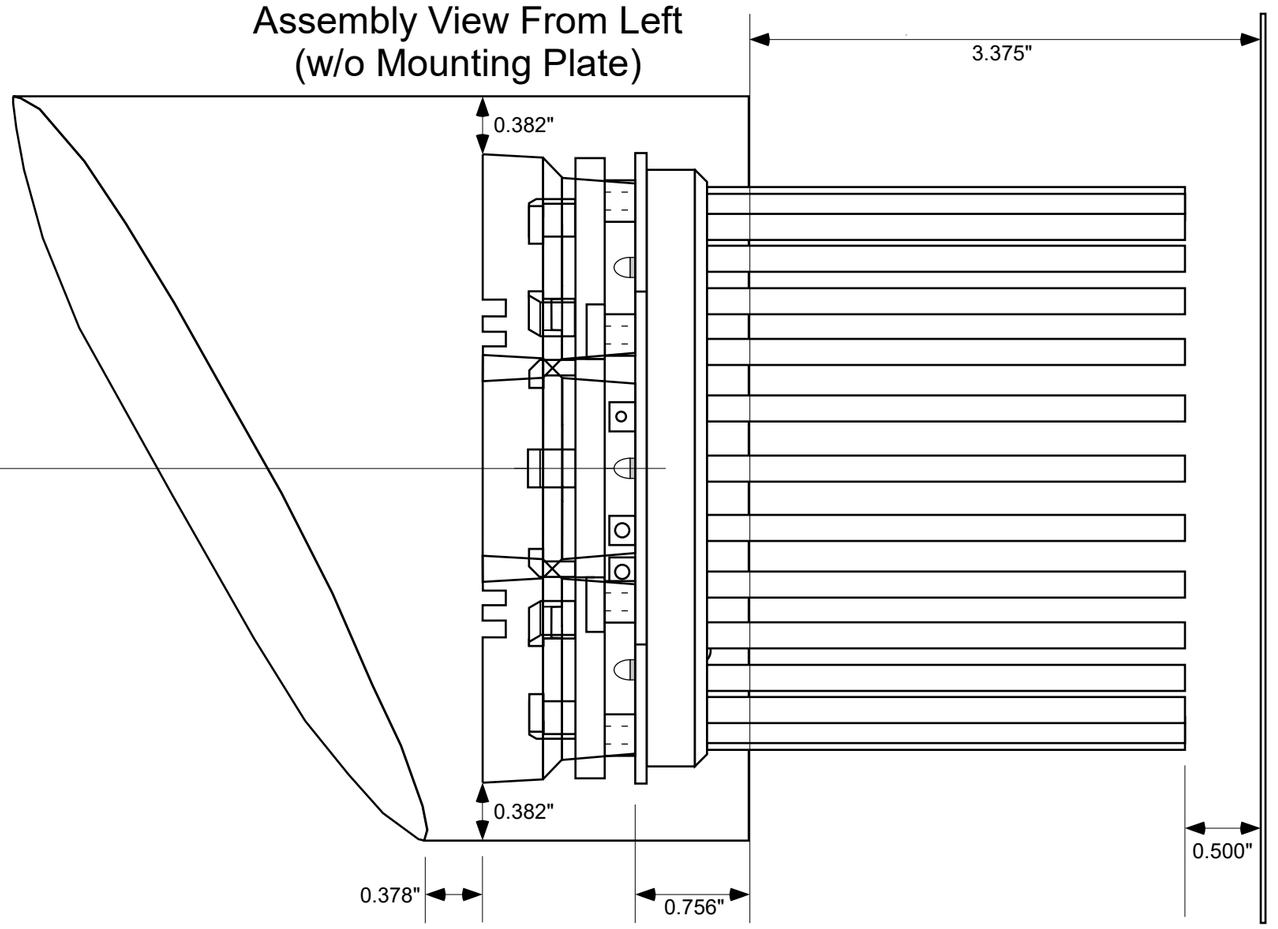
Lens Cups, Lens Holder Frame, Lens Holder Spacers, MCPCB, and Heatsink shown in their relative positions at an accurate length.

ASSEMBLED SEVEN STARS LANDING LIGHT (Side & Front View)



Assembly
View From Front
(w/o Mounting Plate)

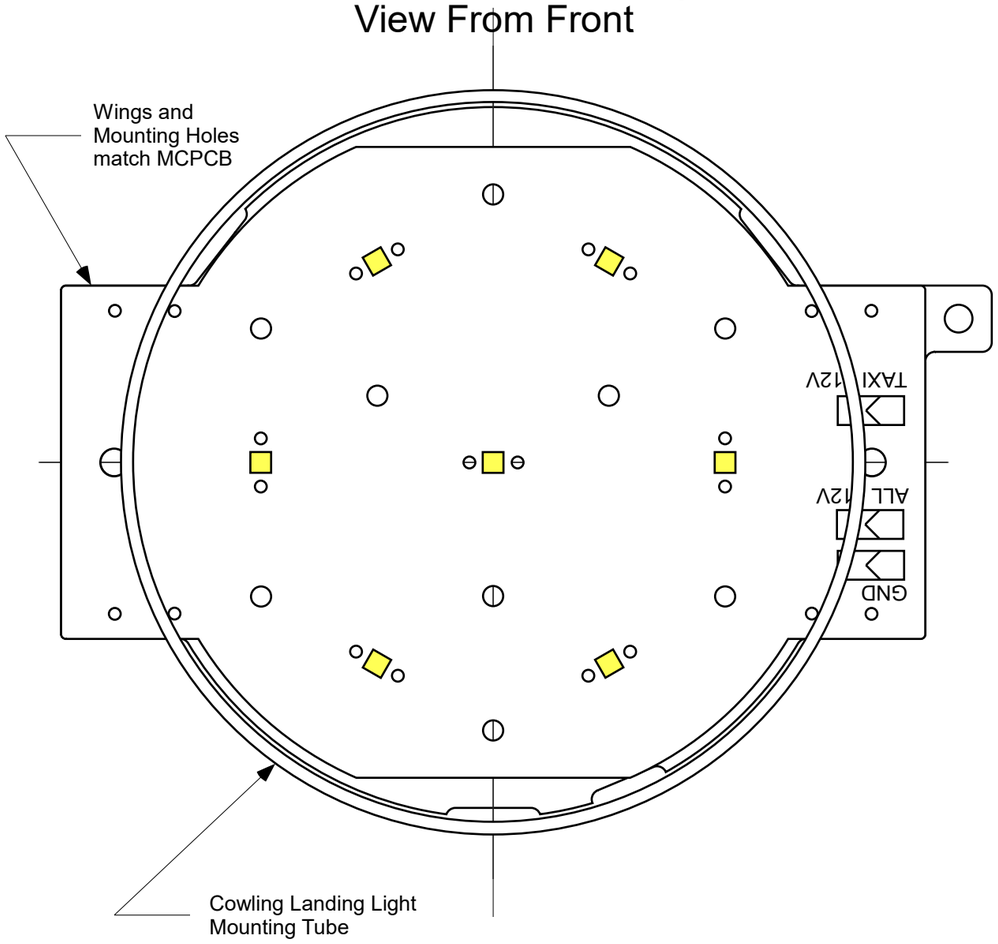
Assembly View From Left
(w/o Mounting Plate)

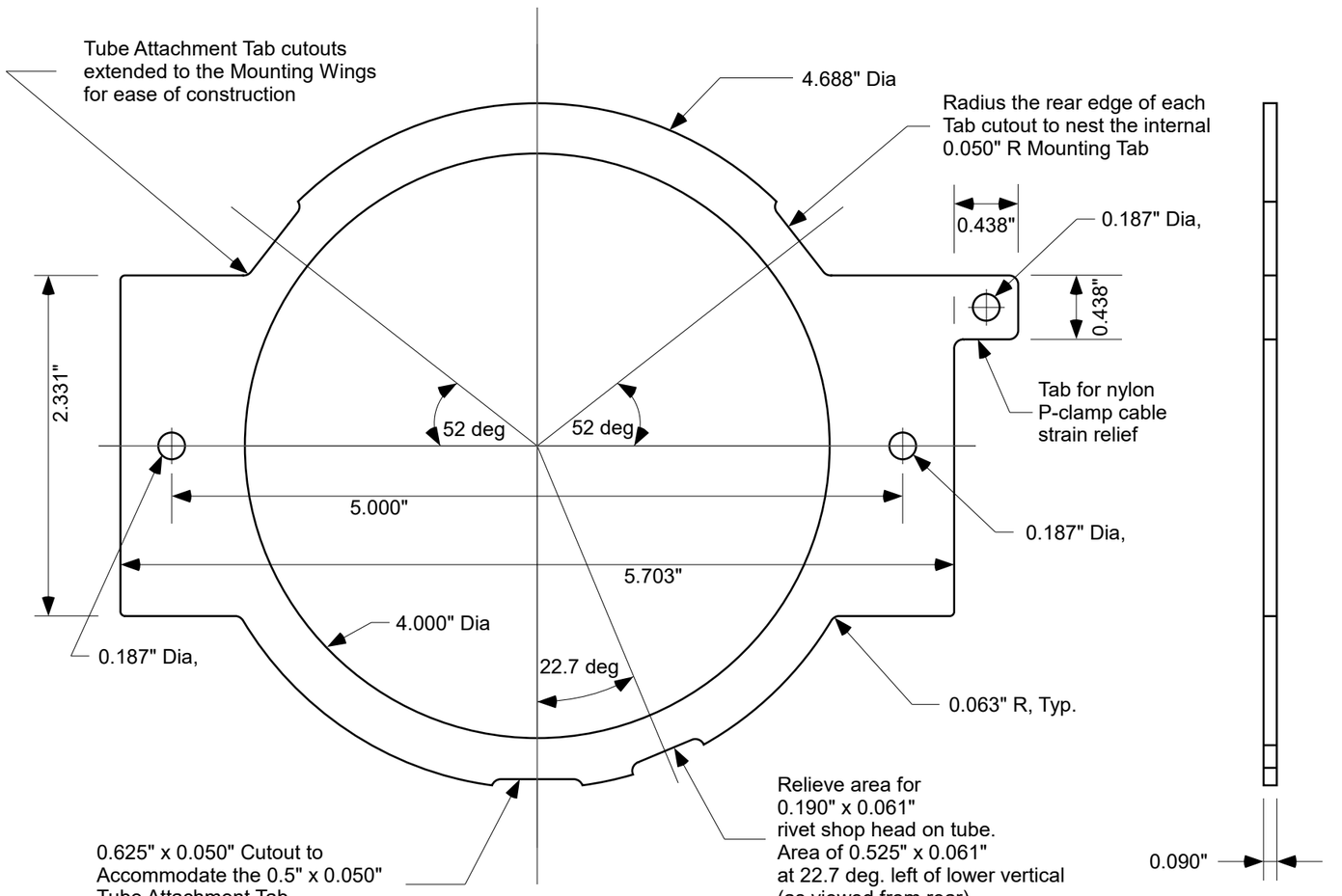


Baffle

Landing Light Mounting Plate
(0.090" 6061-T6 Aluminum)

Tube, MCPCB, and Mounting Plate
View From Front

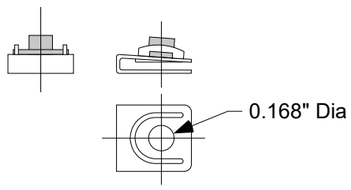




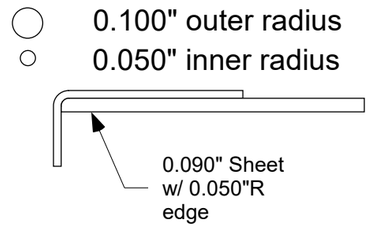
View From Front

View From Left

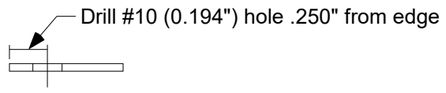
INITIAL LAYOUT OF MOUNTING PLATE



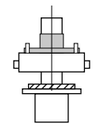
Clip-on Nutplate



Tab Bend and
Fit to Mounting Plate



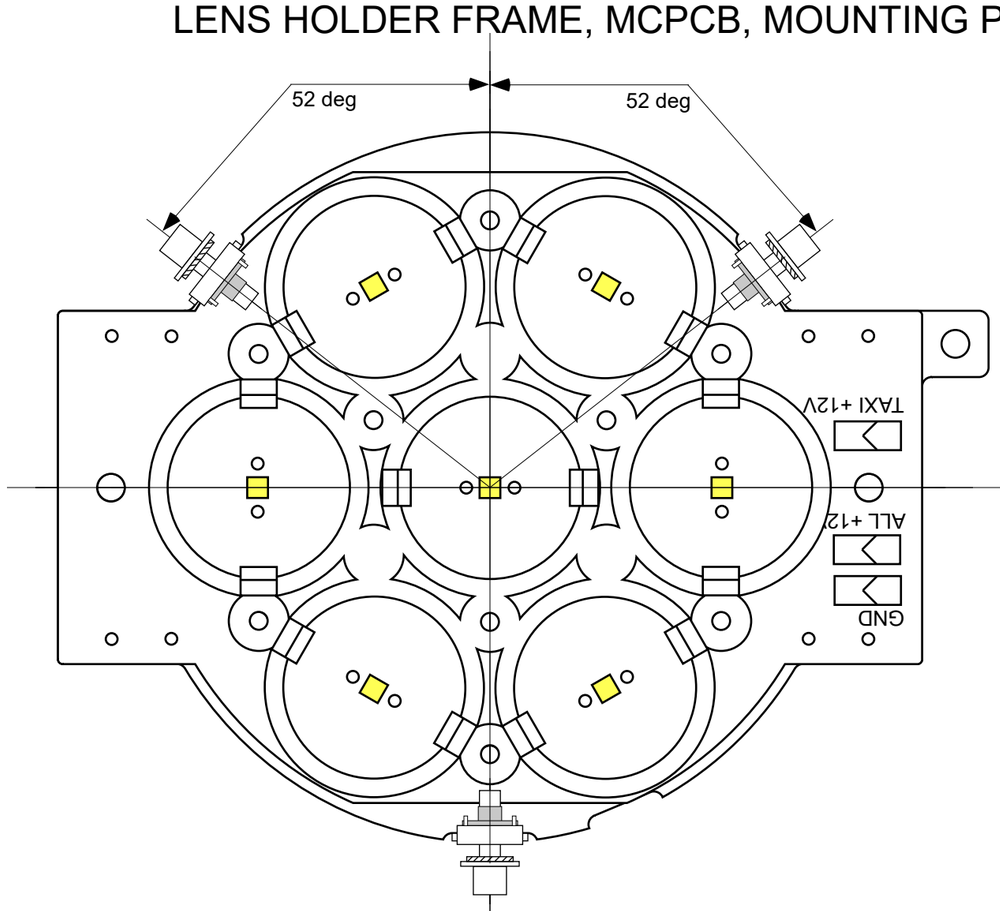
End of Tab hole location
and size



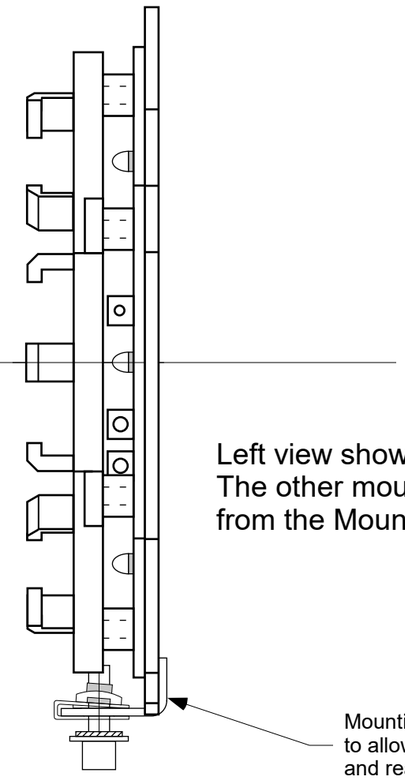
Gap between washer
and nutplate is the
Tube thickness (0.081")

Nutplate on 0.050" tab
w/ #6 x 1/2" long screw (NAS1352C06-8)
w/ 0.031" thick Al washer (AN960D6) and
0.031" thick star-washer (AN936B6)

LENS HOLDER FRAME, MCPCB, MOUNTING PLATE, TABS AND SCREWS



VIEW FROM FRONT



VIEW FROM LEFT

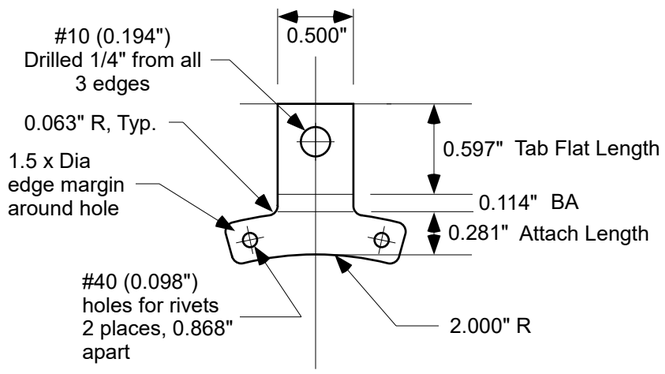
Left view shows only the bottom mounting screw.
The other mounting screws are similarly placed
from the Mounting Plate.

Ref.: "SPORTPLANE CONSTRUCTION TECHNIQUES", by Tony Bingelis, pp. 39-47

SET BACK (SB) = RADIUS (R) + THICKNESS (T)
SB = (R + T)
BEND ALLOWANCE (BA) = (0.01743*R + 0.0078*T)*(NUMBER of DEGREES of BEND (N))
BA = (0.01743*R + 0.0078*T)*N

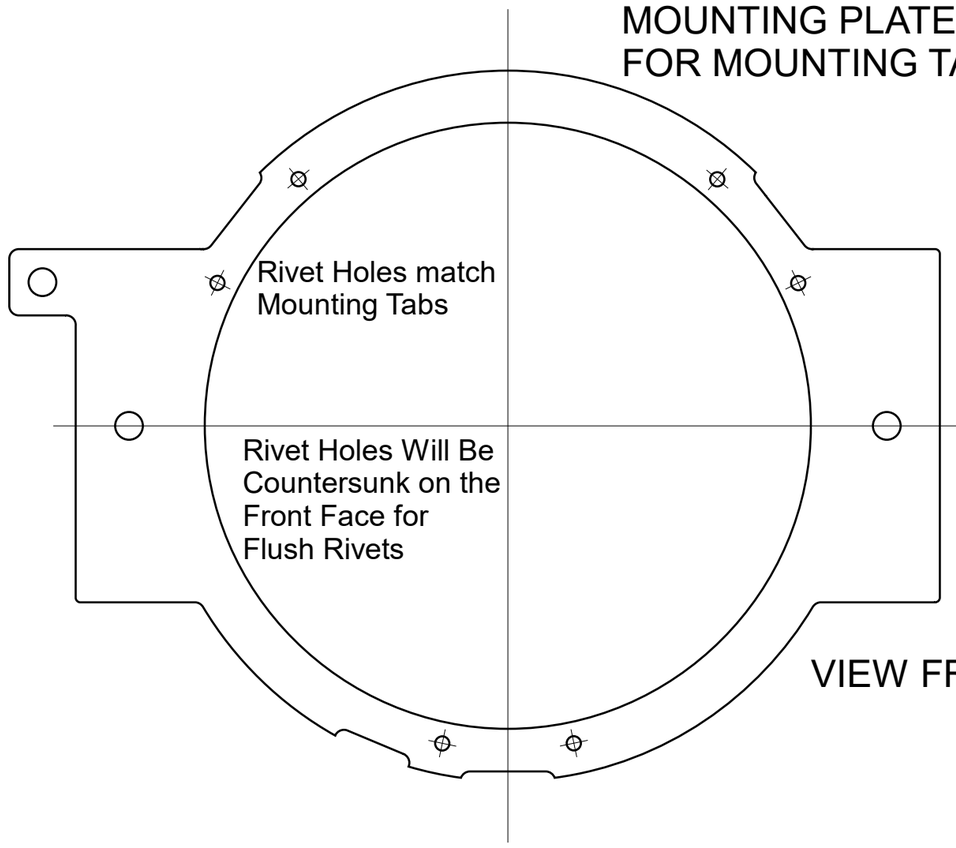
For a 90 deg bend in 0.050" thick 6061-T6 with an internal bend radius of 0.050":
SB = (0.050" + 0.050") = 0.100"
BA = (0.01743*0.050 + 0.0078*0.050")*90 = 0.0012615*90 = 0.114"

MOUNTING TABS (Qty 3)
(Make from 0.050" 6061-T6 Al Sheet)



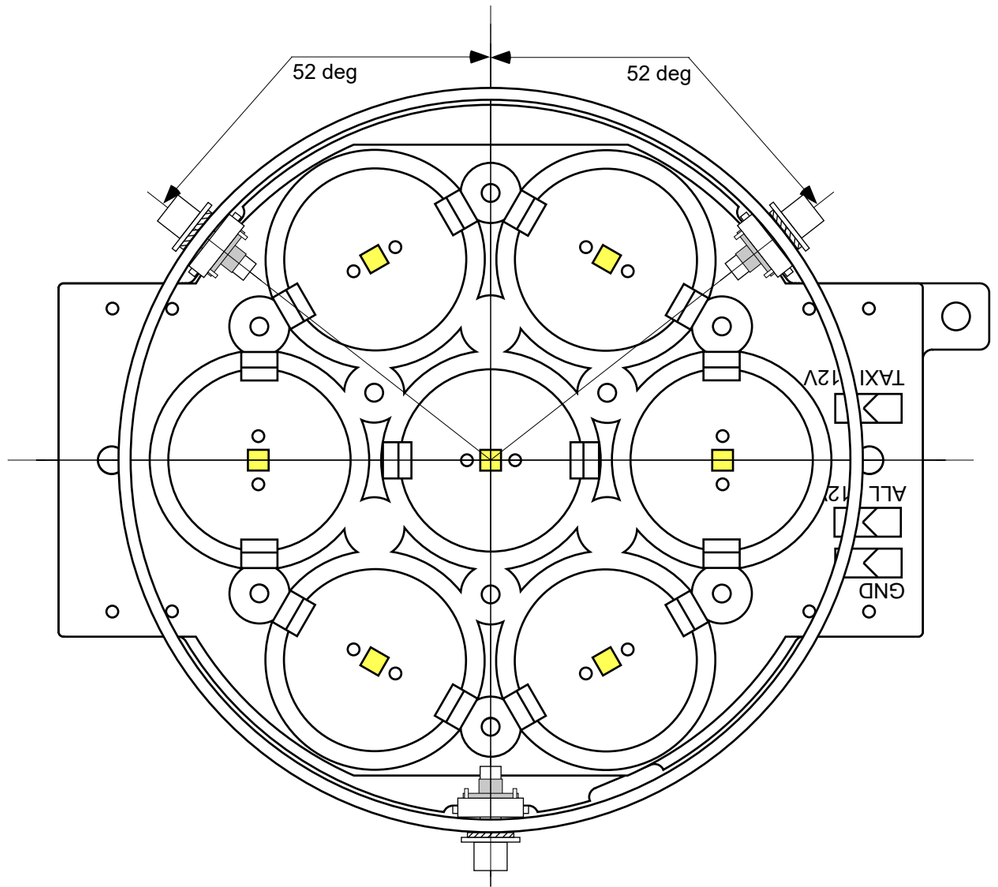
tab length: Tab Flat length = 0.597"
SB = 0.100"
BA = 0.114"
Mounting Plate Attach Length = 0.281"

MOUNTING PLATE w/ RIVET HOLES FOR MOUNTING TABS

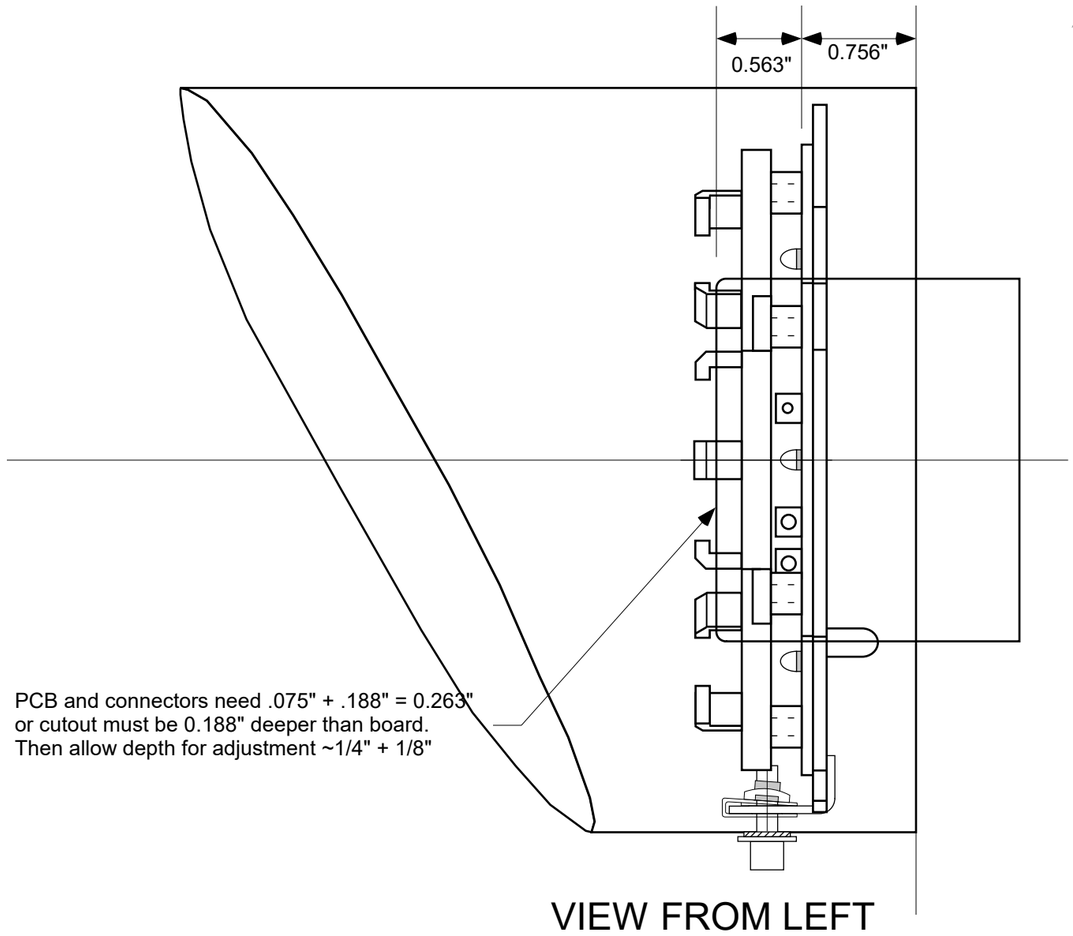


VIEW FROM REAR

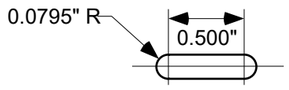
COMPLETED MOUNTING PLATE AND MOUNTING TABS



VIEW FROM FRONT

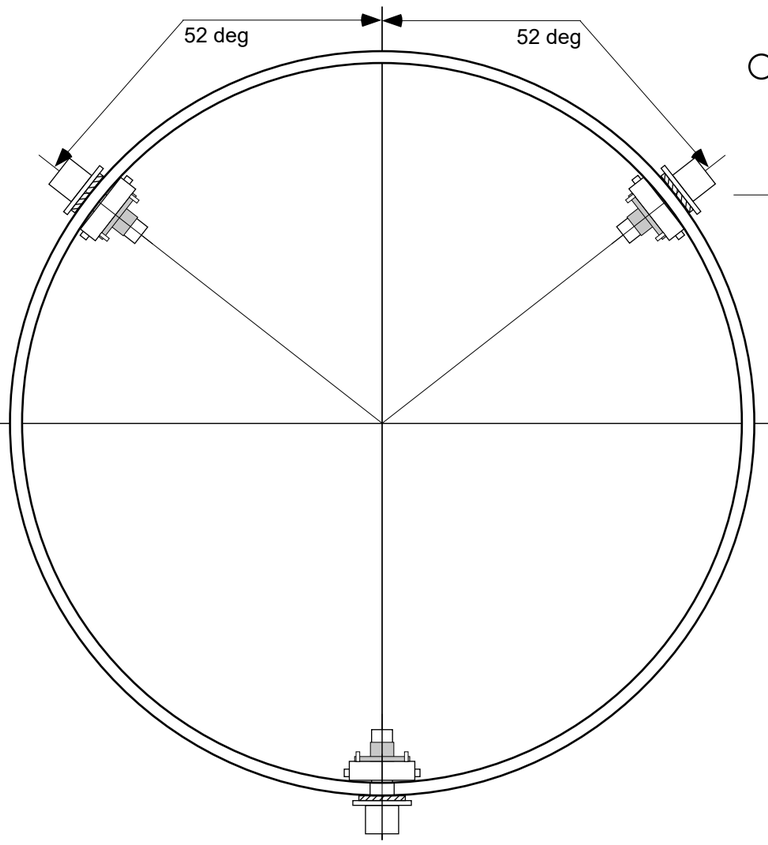


VIEW FROM LEFT

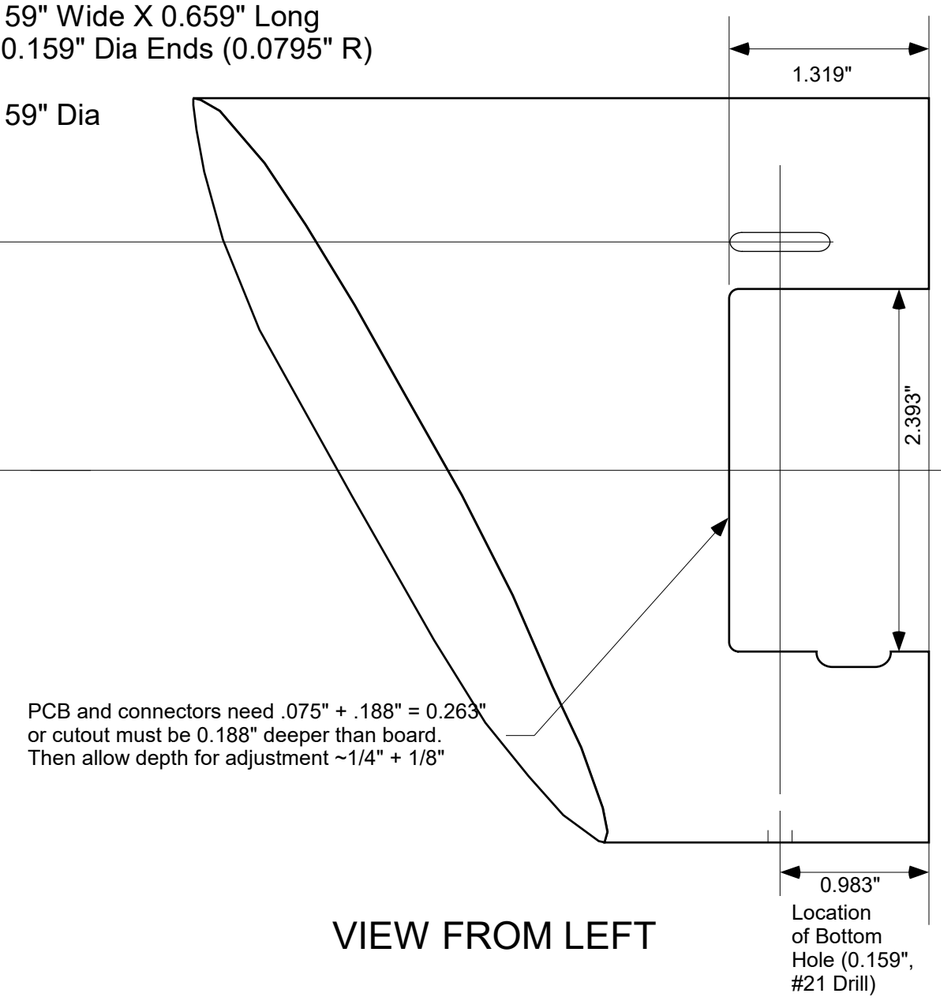


TOP 2 SLOTS: 0.159" Wide X 0.659" Long
w/ 0.159" Dia Ends (0.0795" R)

BOTTOM HOLE: 0.159" Dia



VIEW FROM FRONT



VIEW FROM LEFT

MODS TO THE COWLING LANDING LIGHT MOUNTING TUBE