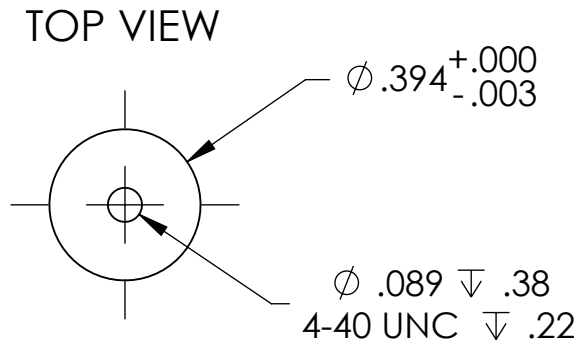
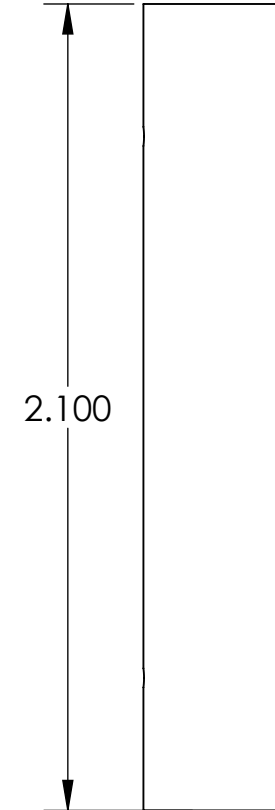
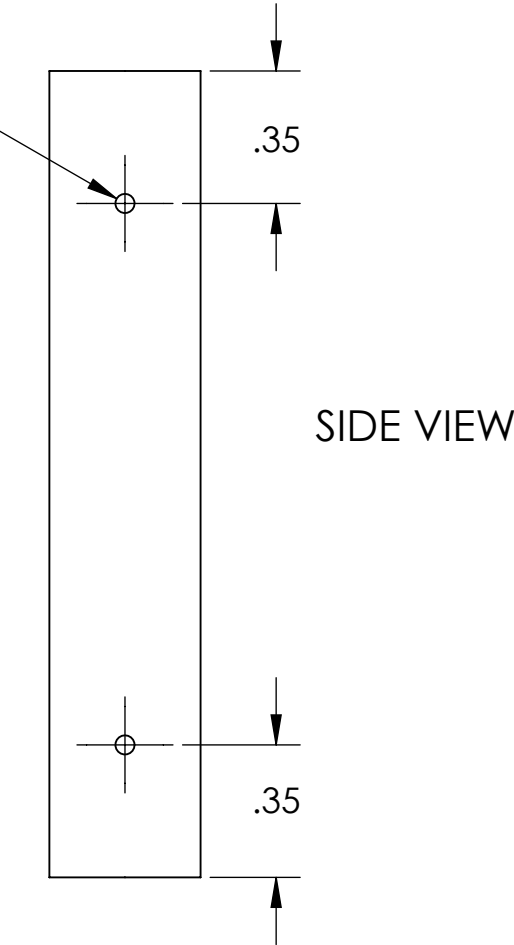


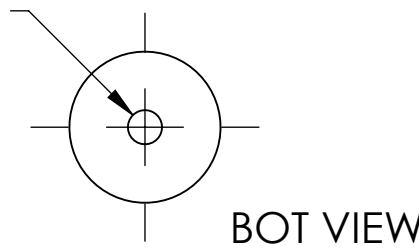
| REV. | DATE | DCN # | DRAWING TREE # |
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2 X $\phi .05$ THRU ALL



$\phi .089 \nabla .38$
4-40 UNC $\nabla .22$



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN TOLERANCES:
 .XX" ± 0.01 "
 .XXX" ± 0.005 "
 ANGULAR $\pm 0.5^\circ$

REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.
 Fabricate 4 Copies

MATERIAL Delrin

FINISH 63 μ inch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM SUB-SYSTEM

NEXT ASSY

PART NAME Base Post

DESIGNER

DRAFTER Aaron Markowitz

CHECKER Brittany Kamal

APPROVAL RXA

SIZE DWG. NO. B D1700187

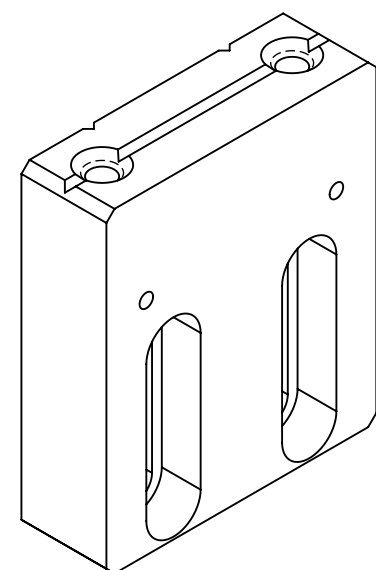
REV.

SCALE: 2:1 PROJECTION: SHEET 1 OF 1

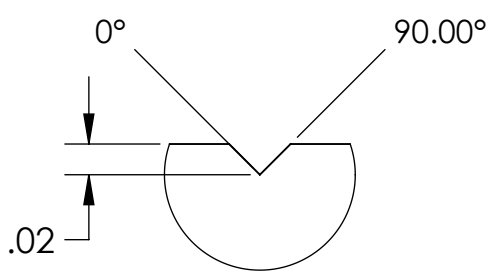
Base Post, PART PDM REV: , DRAWING PDM REV:

ESD Holder, PART PDM REV.: , DRAWING PDM REV.:

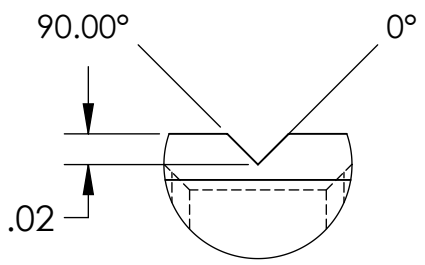
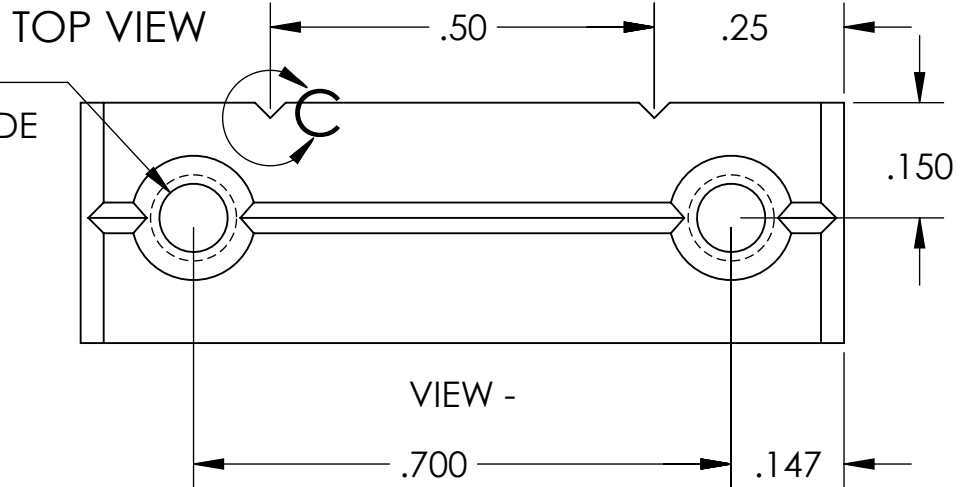
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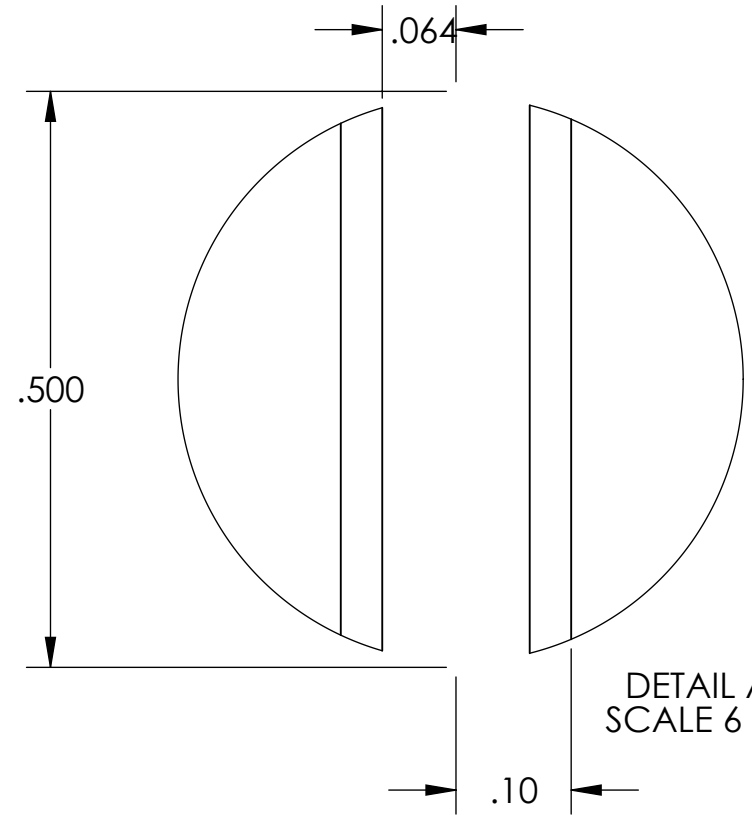
2X ϕ .089 ∇ .38
 4-40 UNC ∇ .30
 ∇ ϕ .162 X 90°, NEAR SIDE



DETAIL C
SCALE 8 : 1



DETAIL B
SCALE 8 : 1

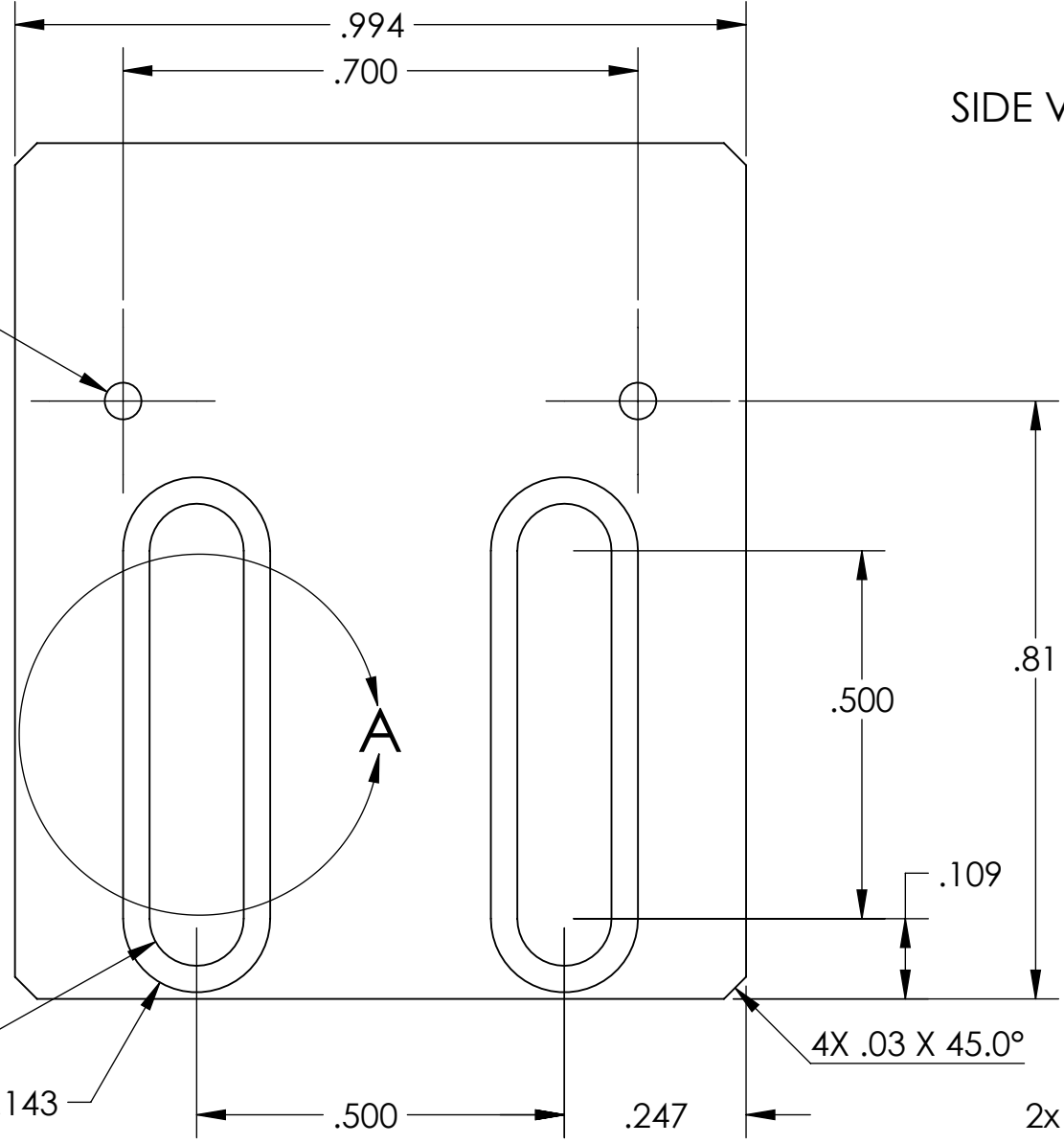


DETAIL A
SCALE 6 : 1

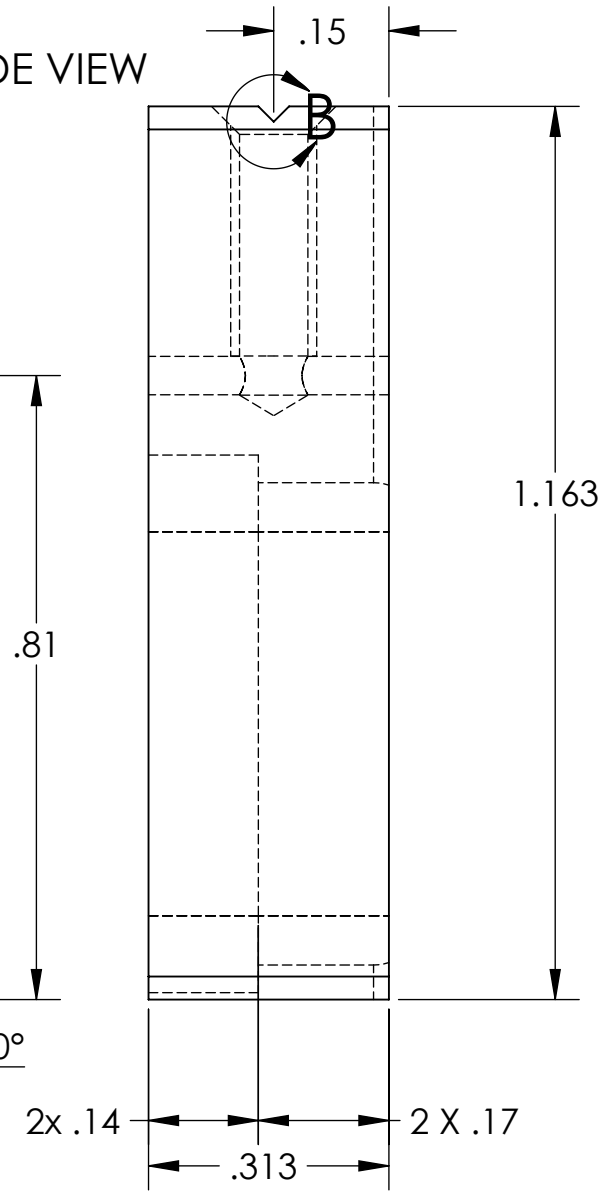
FRONT VIEW

2x ϕ .05 THRU

R.064 ∇ THRU
 2 X R.100 ∇ .143



SIDE VIEW



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN
 TOLERANCES:
 .XX \pm 0.01"
 .XXX \pm 0.005"
 ANGULAR \pm 0.5°

REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.

MATERIAL Aluminum 6061 FINISH 63 μ inch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM SUB-SYSTEM

NEXT ASSY

PART NAME
ESD Holder

DESIGNER Aaron Markowitz
 DRAFTER
 CHECKER Brittany Kamal
 APPROVAL RXA

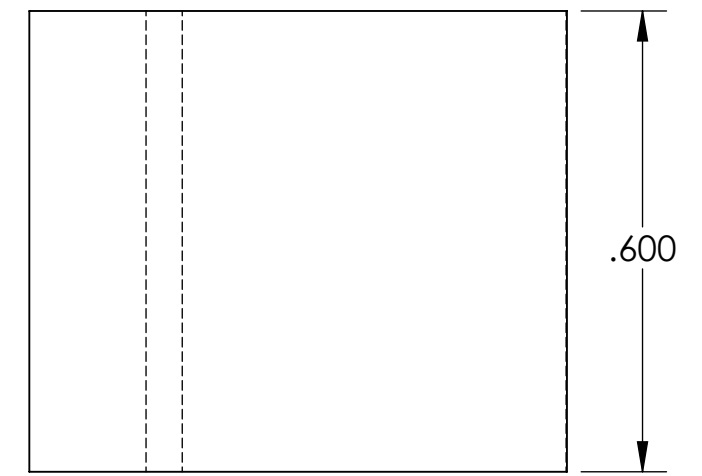
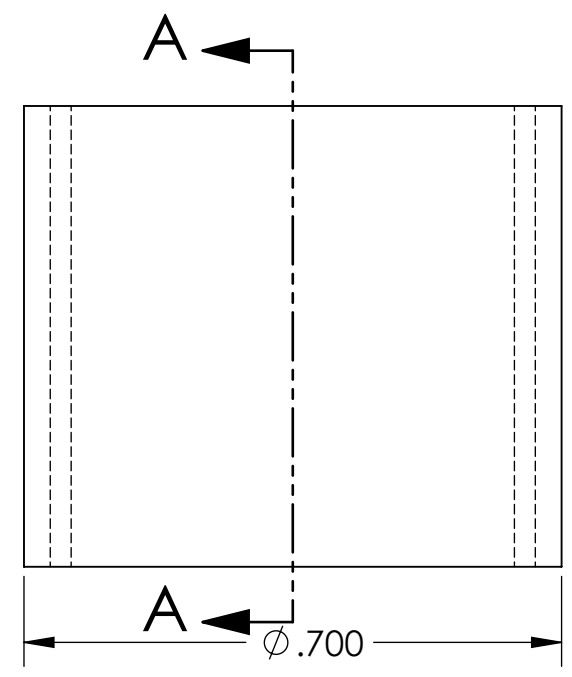
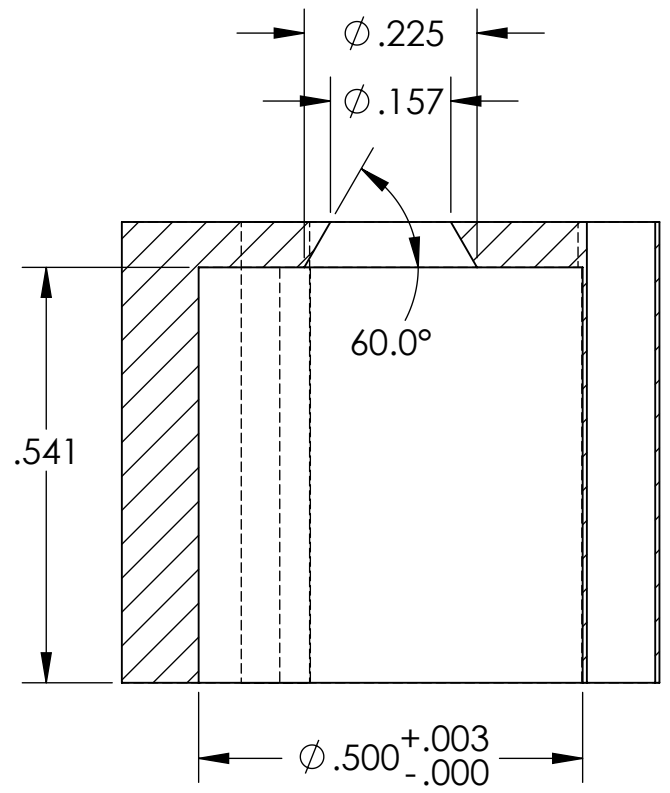
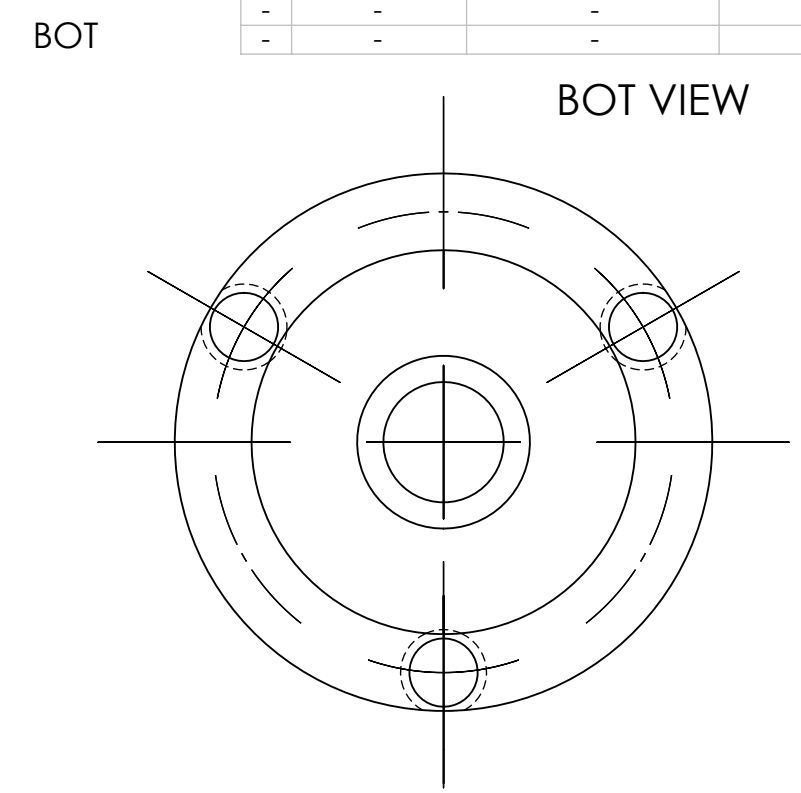
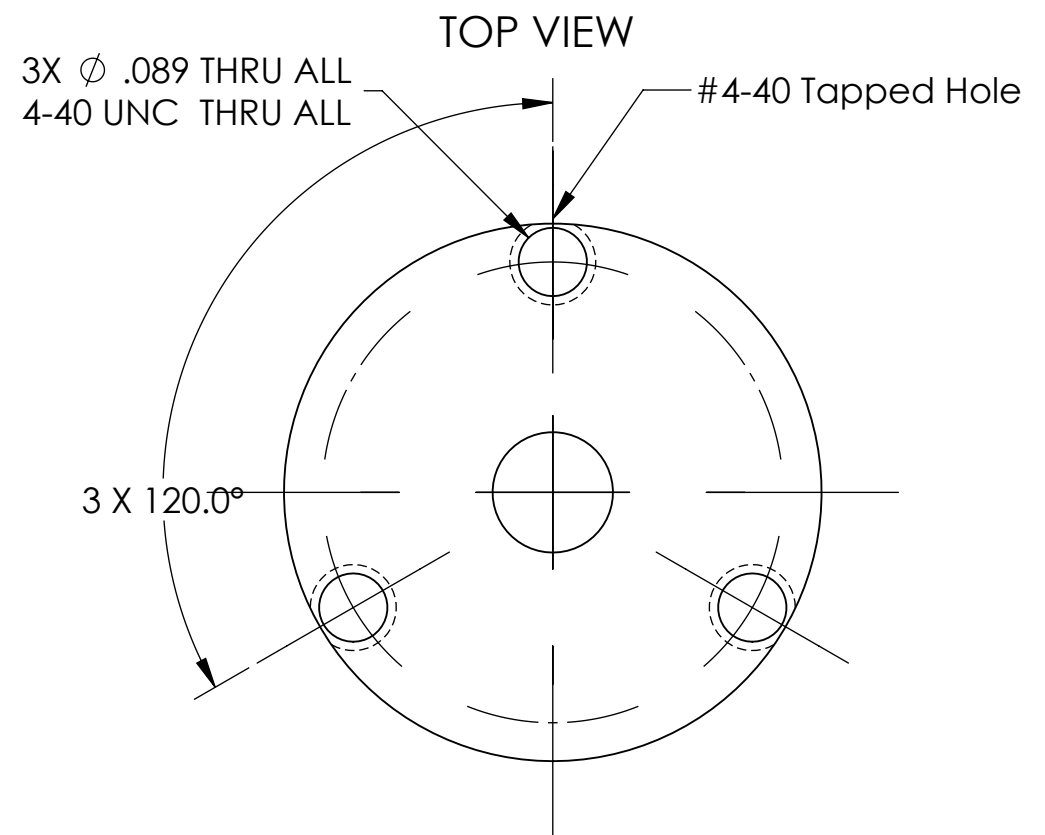
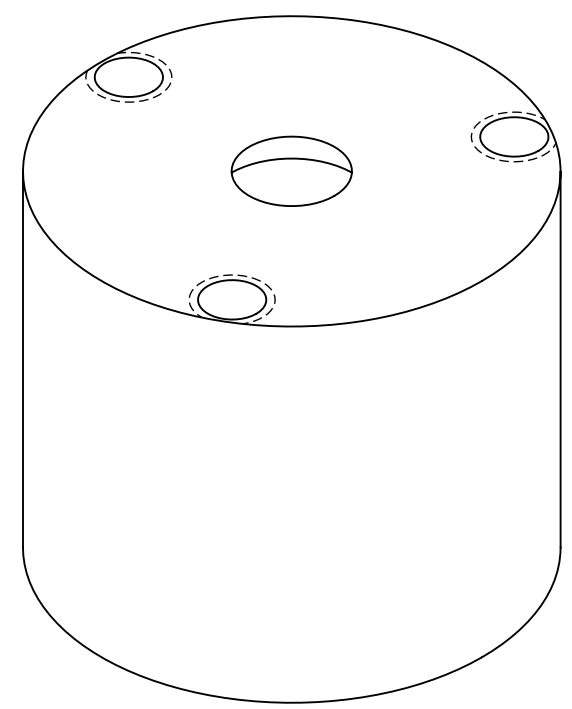
SIZE DWG. NO.
B D1700187

REV. SHEET 1 OF 1

SCALE: 4:1 PROJECTION:

Hemisphere Clamp, PART PDM REV.: , DRAWING PDM REV.:

| REV. | DATE | DCN # | DRAWING TREE # |
|------|------|-------|----------------|
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| - | - | - | - |

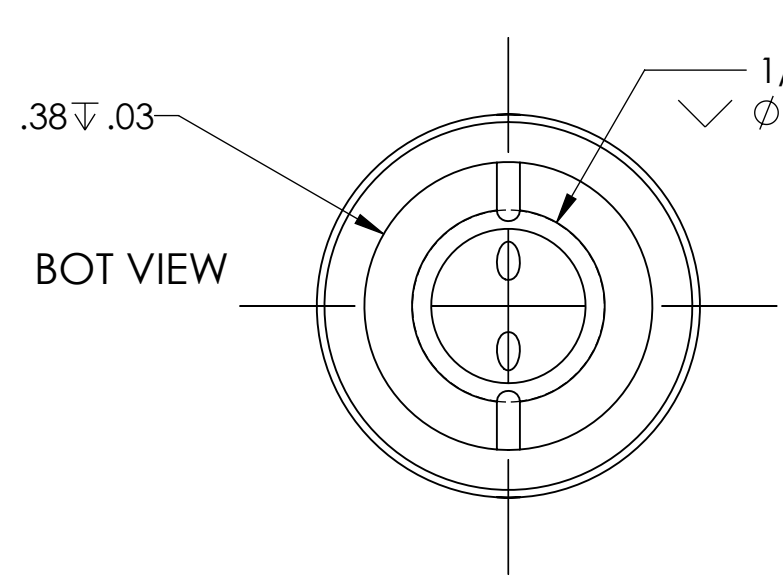
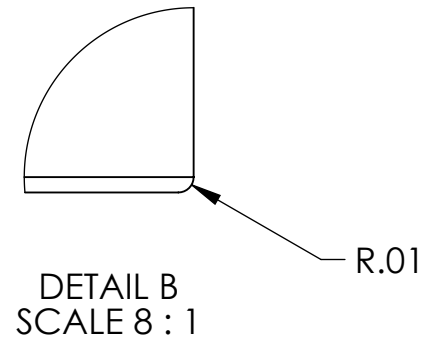
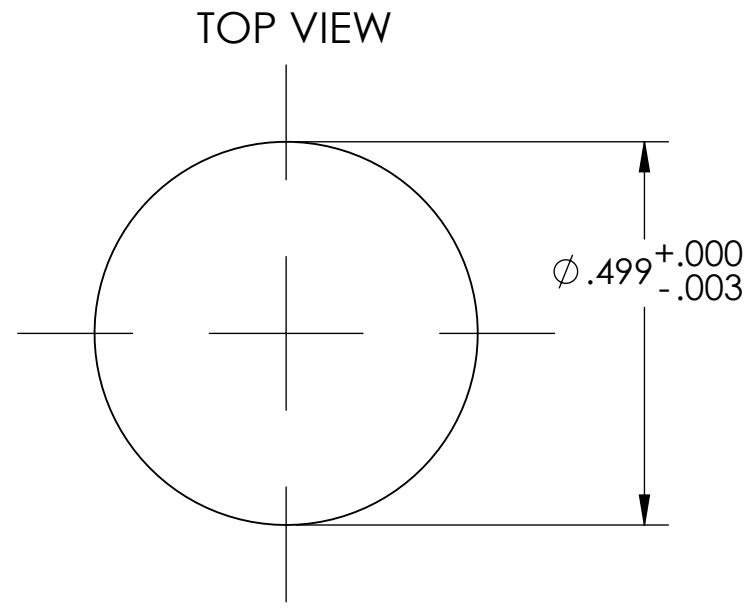
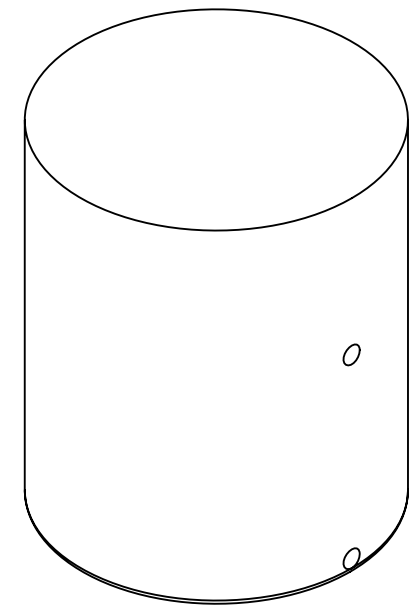


SECTION A-A

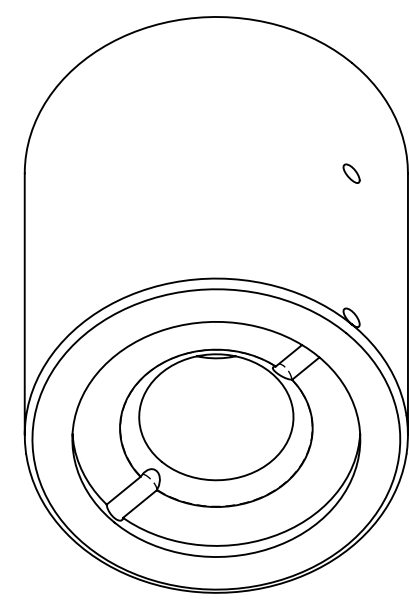
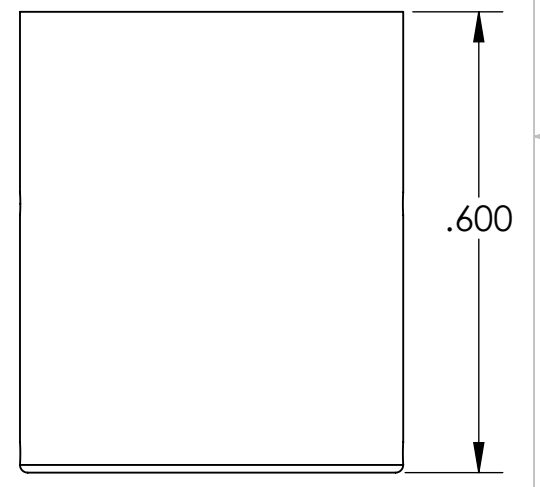
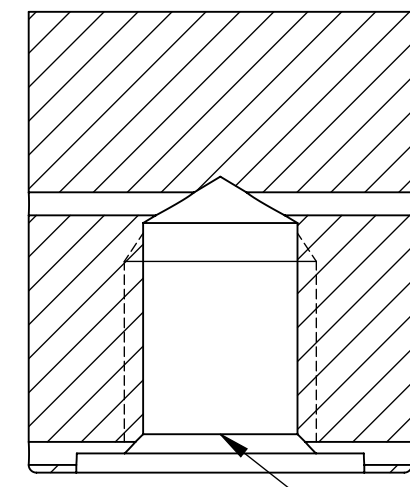
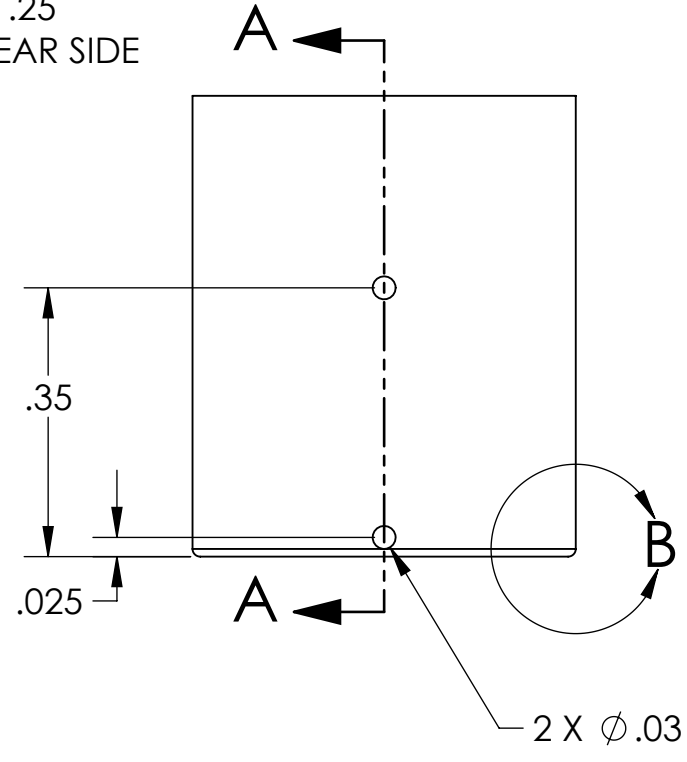
SIDE VIEW

| | | | | | | | |
|--|--|---|--|---|--|--|--|
| <p>NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)</p> <p>DIMENSIONS ARE IN TOLERANCES:</p> <p>.XX ± 0.01"</p> <p>.XXX ± 0.005"</p> <p>ANGULAR ± 0.5°</p> | | <p>REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.</p> | | <p>LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY</p> | | <p>PART NAME Hemisphere Clamp</p> | |
| <p>MATERIAL Aluminum 6061</p> | | <p>FINISH 63 µinch</p> | | <p>SYSTEM</p> | | <p>SUB-SYSTEM</p> | |
| <p>DESIGNER</p> | | <p>DRAFTER</p> | | <p>CHECKER</p> | | <p>APPROVAL</p> | |
| <p>SIZE DWG. NO. B</p> | | <p>REVISIONS</p> | | <p>SCALE: 4:1</p> | | <p>PROJECTION: </p> | |
| <p>SHEET 1 OF 1</p> | | <p>DATE</p> | | <p>PROJECT</p> | | <p>REV.</p> | |

| REV. | DATE | DCN # | DRAWING TREE # |
|------|------|-------|----------------|
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| - | - | - | - |
| - | - | - | - |



$\phi .201 \nabla .30$
 1/4-20 UNC $\nabla .25$
 $\sphericalangle \phi .251 \times 90^\circ$, NEAR SIDE



SIDE VIEW

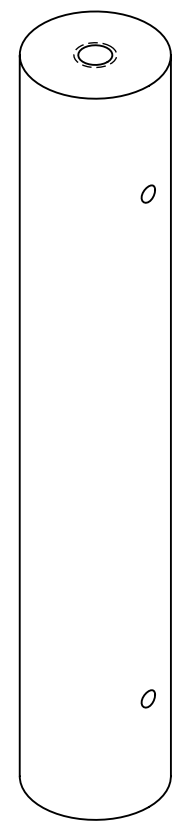
SECTION A-A — 1/4-20 Tapped Hole

2 X $\phi .03$ THRU ALL

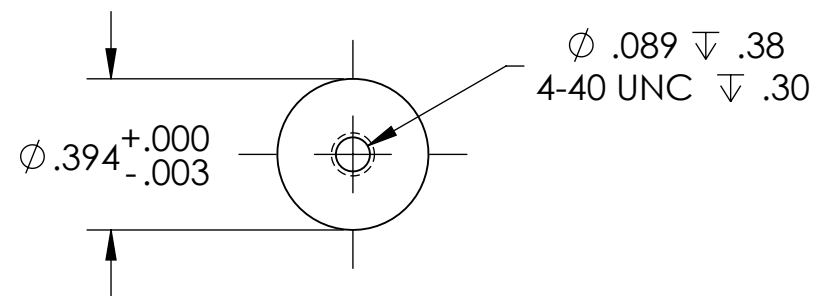
Hemisphere Mount, PART PDM REV: , DRAWING PDM REV:

| | | | | | | | | | |
|---|--|-----------------|--|--|--|---|--|--------------------------------------|--|
| NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5° | | | | REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. | | CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | PART NAME Hemisphere Mount | |
| MATERIAL Aluminum 6061 | | FINISH 63 μinch | | NEXT ASSY | | DESIGNER DRAFTER CHECKER APPROVAL | | SIZE DWG. NO. B | |
| SCALE: 4:1 PROJECTION: SHEET 1 OF 1 | | | | | | | | | |

| REV. | DATE | DCN # | DRAWING TREE # |
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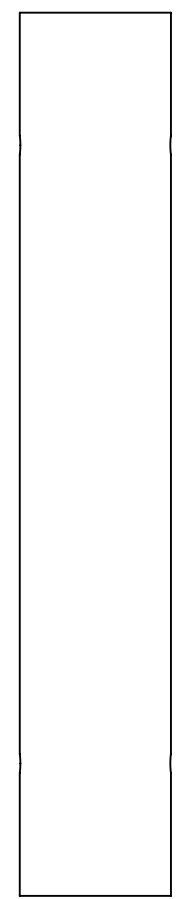
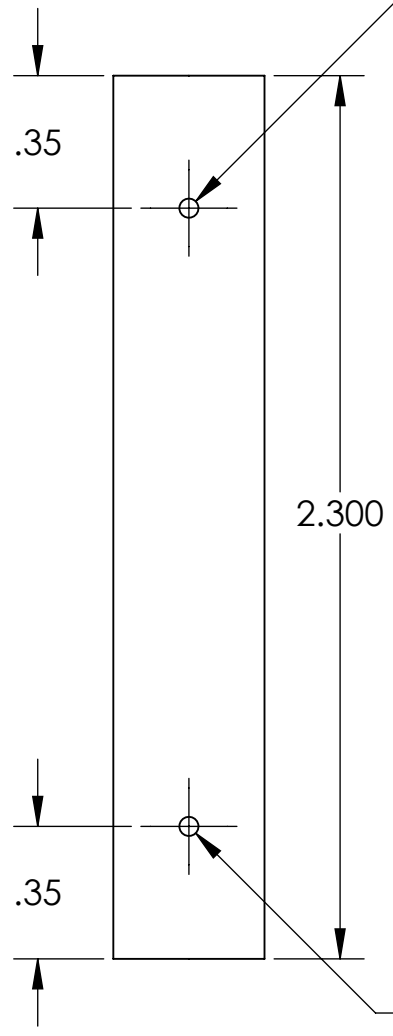


TOP VIEW

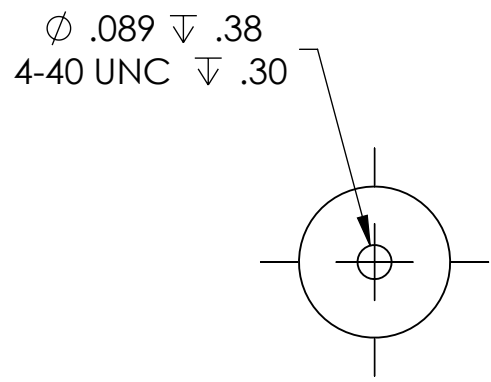


$\phi .05$

SIDE VIEW



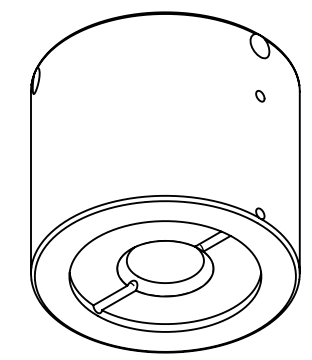
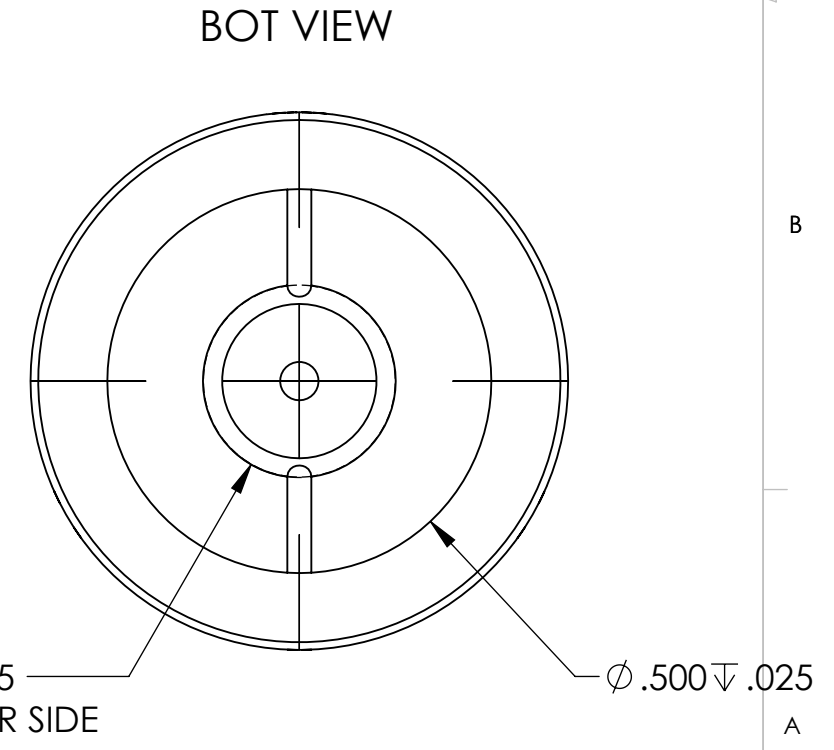
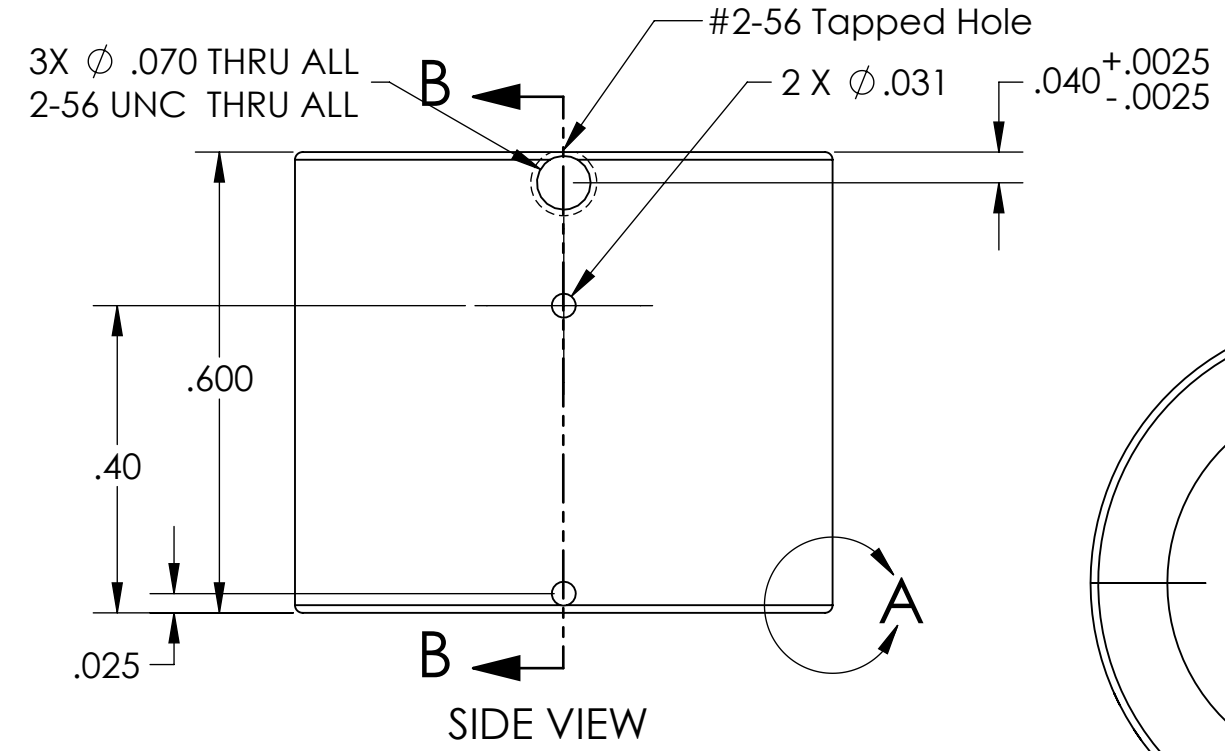
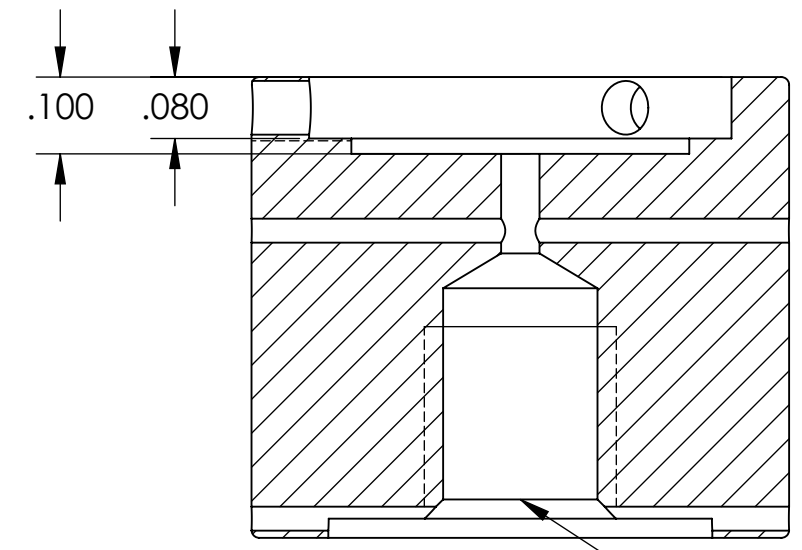
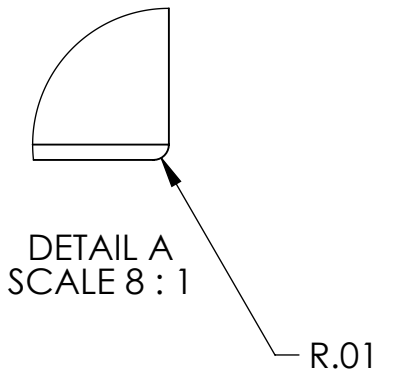
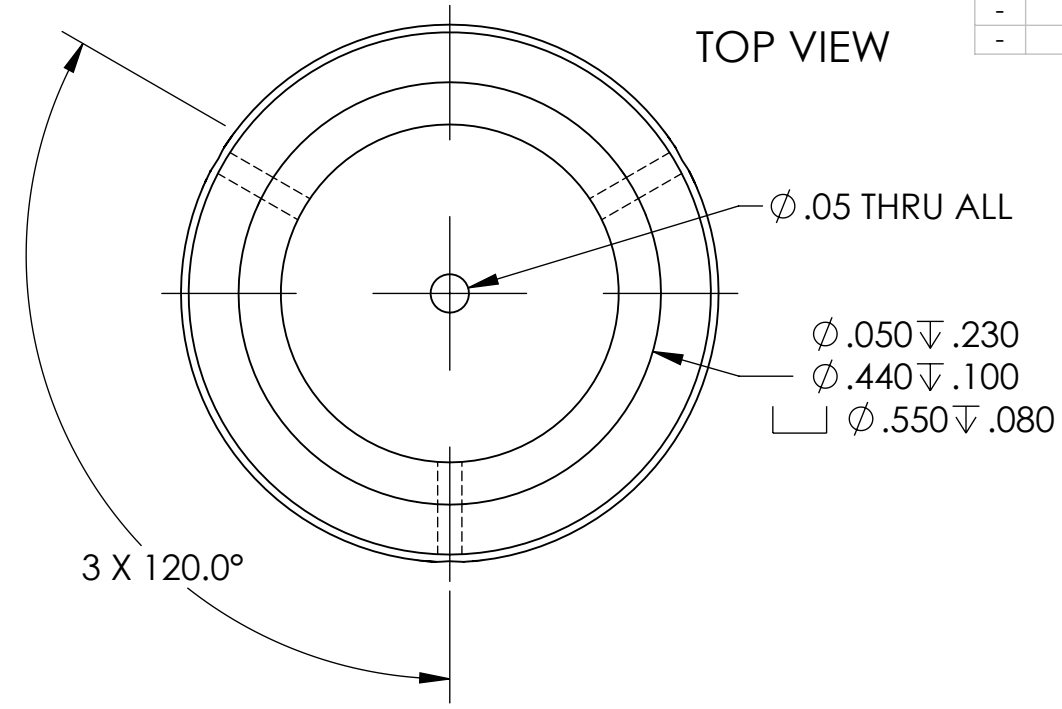
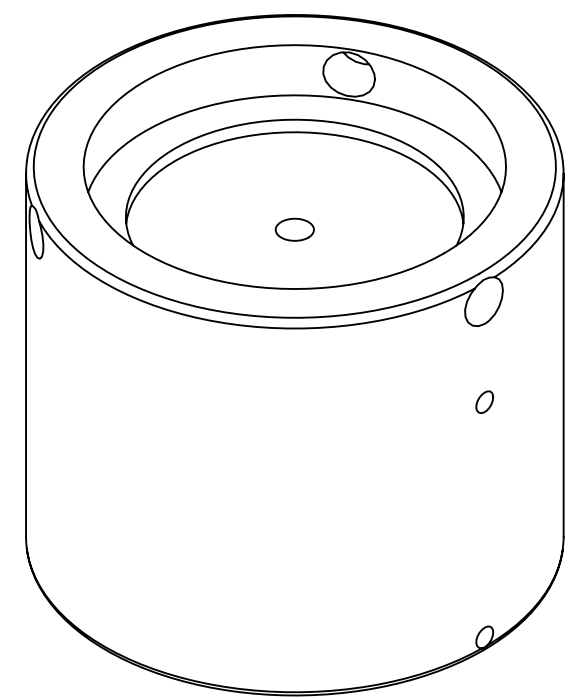
BOT VIEW



Holder Post, PART PDM REV., DRAWING PDM REV:

| NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) | | | | LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | PART NAME | |
|--|--|--|--|---|--|-------------------------------------|--|
| DIMENSIONS ARE IN TOLERANCES: | | REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. | | SYSTEM | | Holder Post | |
| .XX" ± 0.01" | | Fabricate 3 Copies | | SUB-SYSTEM | | SIZE DWG. NO. | |
| .XXX" ± 0.005" | | MATERIAL Delrin | | NEXT ASSY | | B | |
| ANGULAR ± 0.5° | | FINISH 63 μinch | | DESIGNER | | REV. | |
| | | | | DRAFTER | | | |
| | | | | CHECKER | | | |
| | | | | APPROVAL | | SCALE: 2:1 PROJECTION: SHEET 1 OF 1 | |

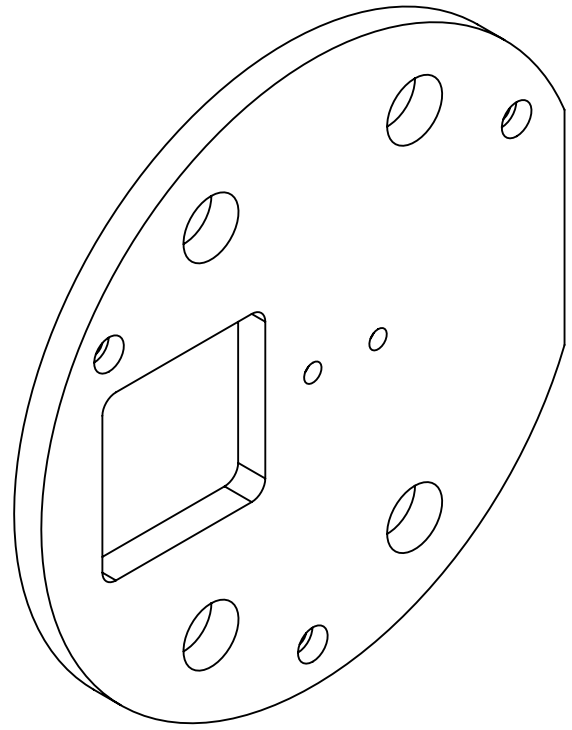
| REV. | DATE | DCN # | DRAWING TREE # |
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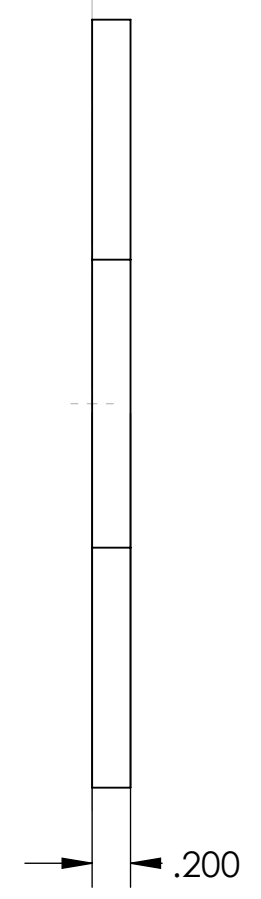
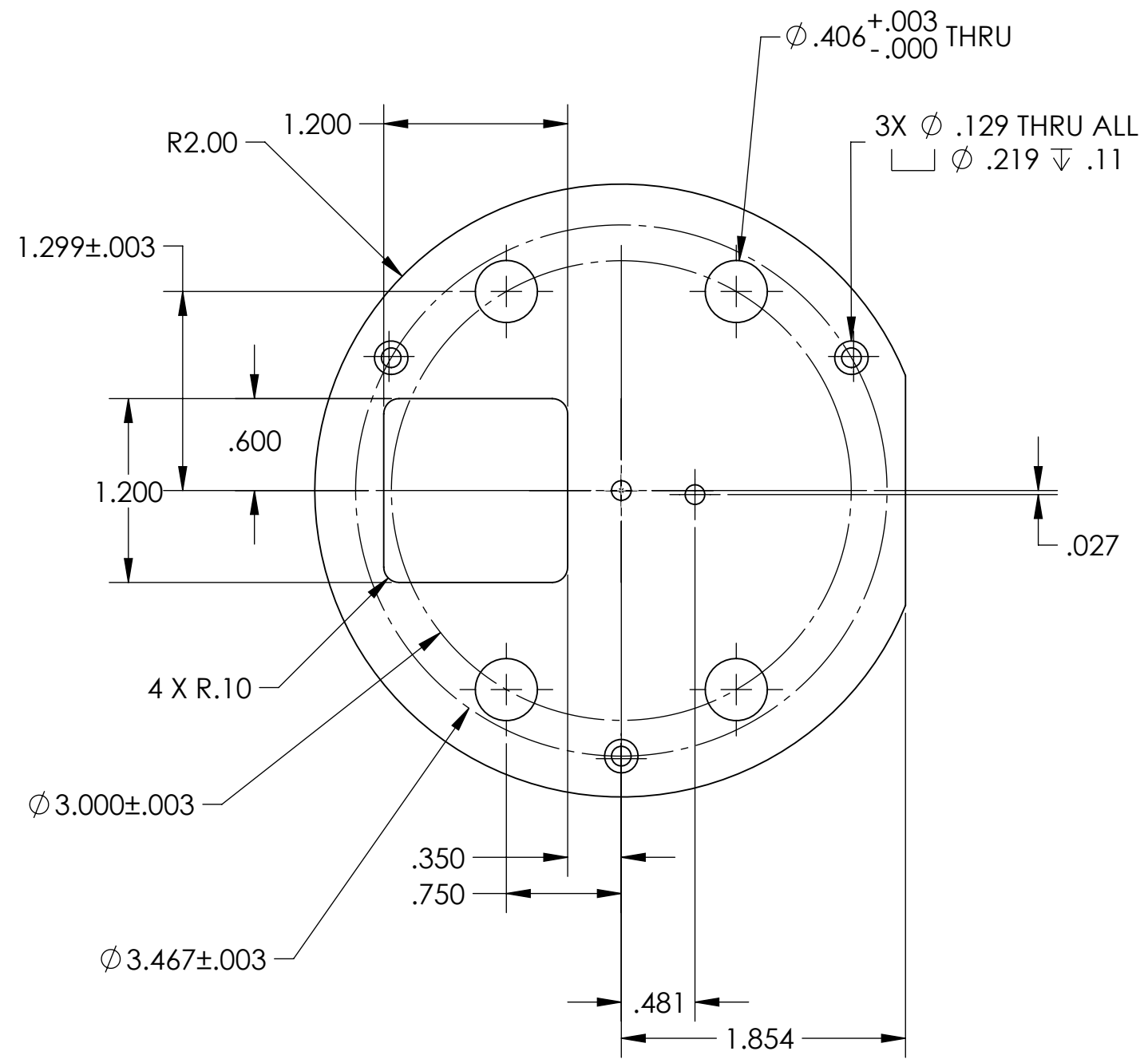
| NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) | | LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | PART NAME | |
|---|---------------|---|----------|--------------|----------|
| DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5° | | REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. | | Lens Mount | |
| MATERIAL | Aluminum 6061 | FINISH | 63 μinch | DESIGNER | |
| | | | | DRAFTER | |
| | | | | CHECKER | |
| | | | | APPROVAL | |
| | | | | SIZE | DWG. NO. |
| | | | | B | |
| | | | | SCALE: | 4:1 |
| | | | | PROJECTION: | |
| | | | | SHEET 1 OF 1 | |

Lens Mount 0.5in, PART PDM REV.: DRAWING PDM REV.:

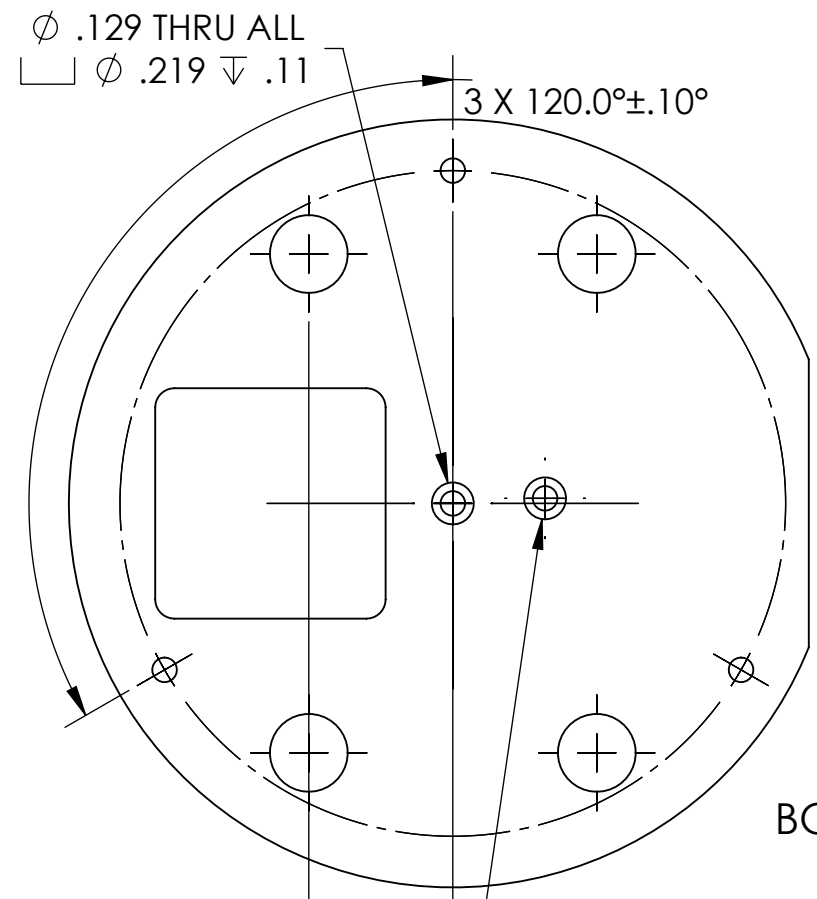
| REV. | DATE | DCN # | DRAWING TREE # |
|------|------|-------|----------------|
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |



TOP VIEW



SIDE VIEW

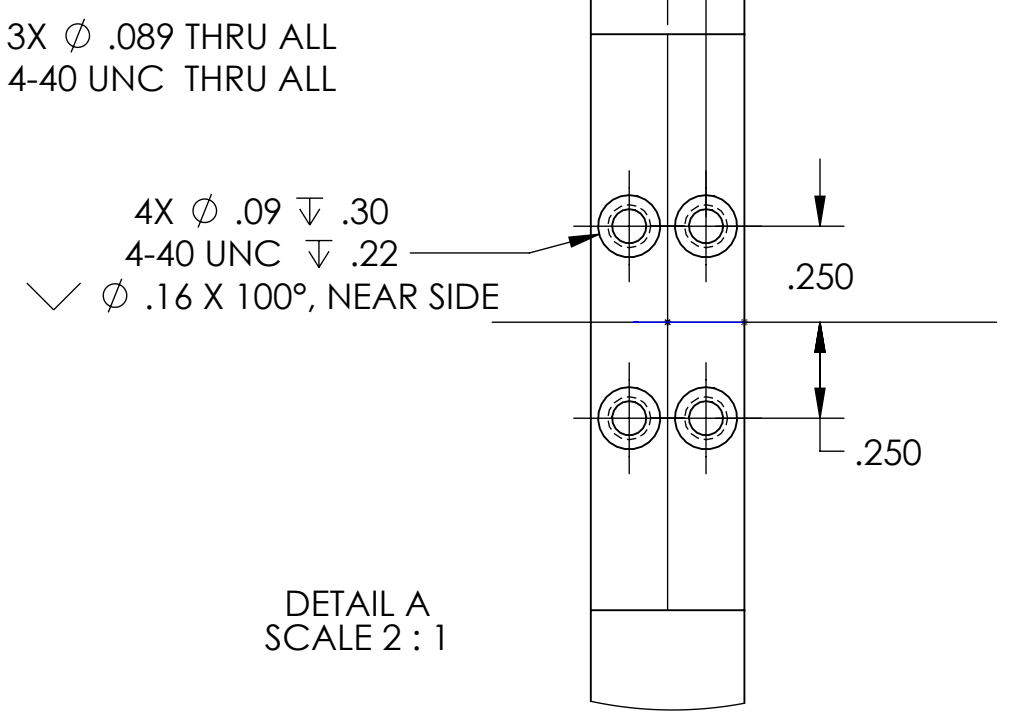
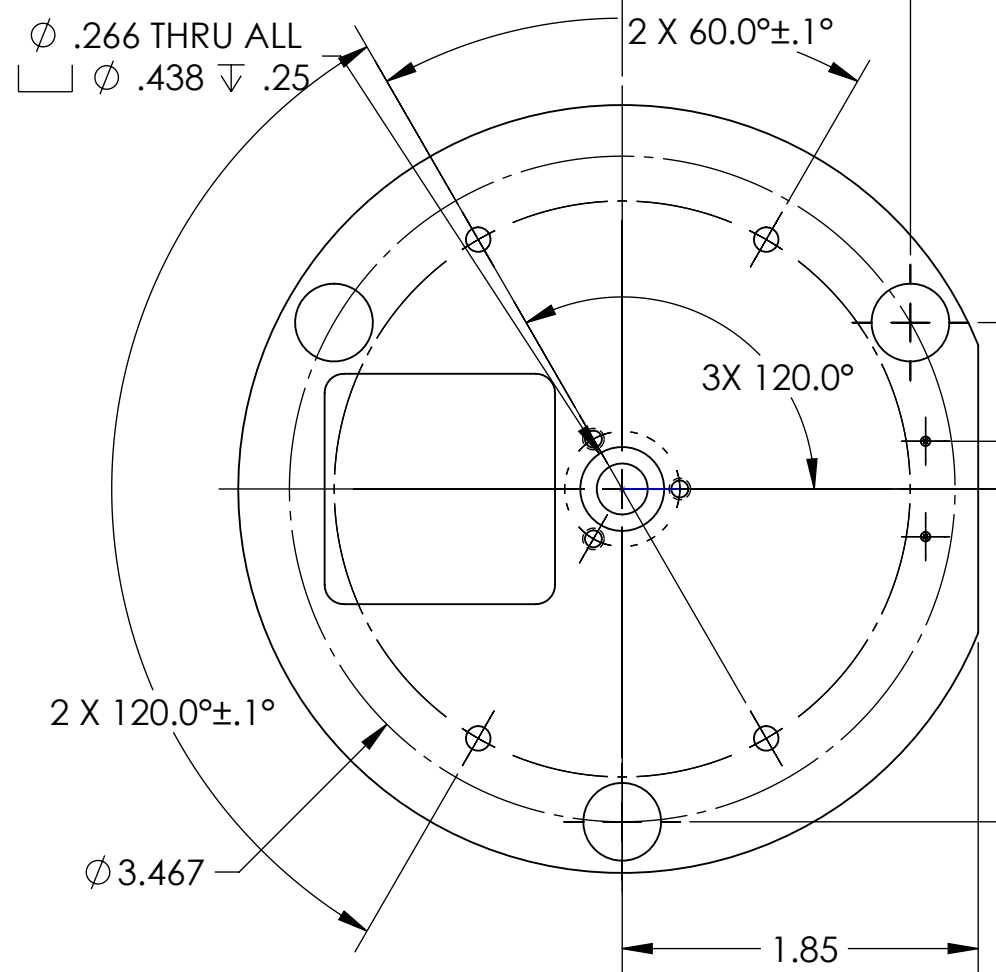
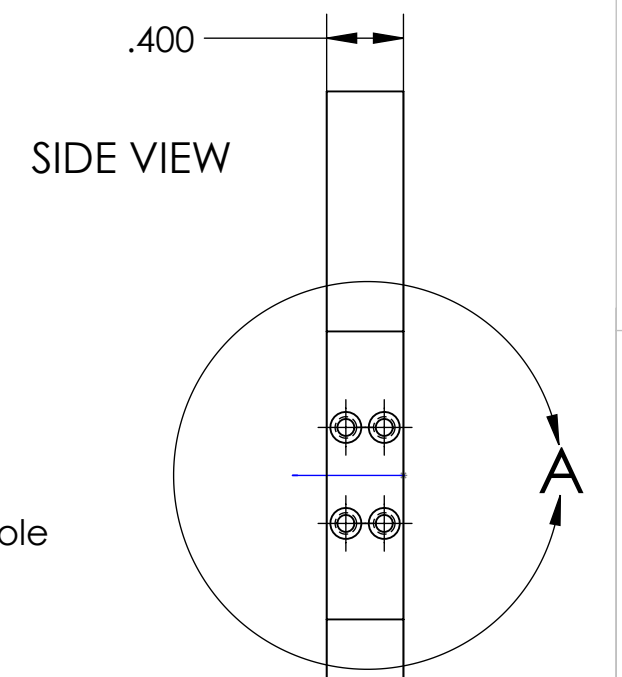
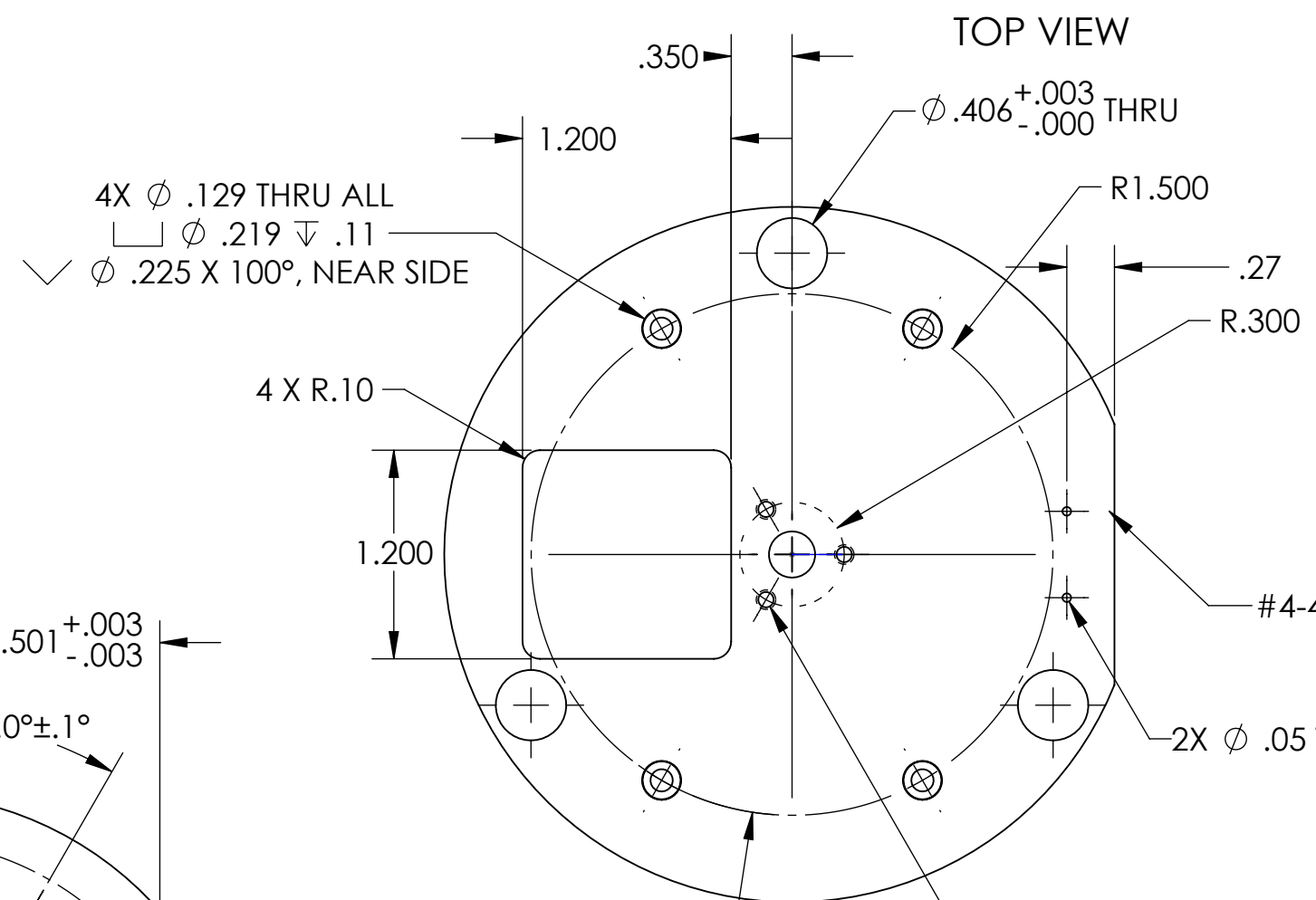
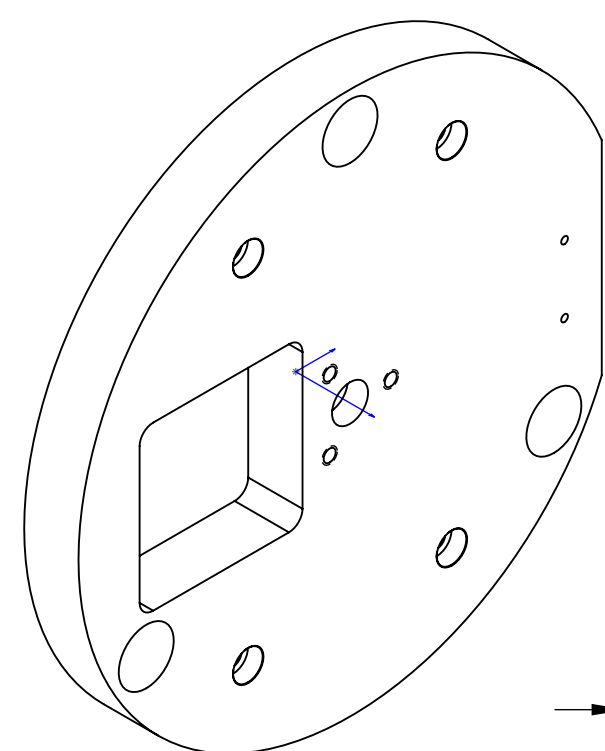


BOT VIEW

Platform, PART PDM REV.: DRAWING PDM REV:

| NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) | | | | CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | PART NAME | |
|---|--|--|--|---|------------|------------|---------------|
| DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5° | | | | LIGO | | Platform | |
| REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. | | | | SYSTEM | SUB-SYSTEM | DESIGNER | SIZE DWG. NO. |
| MATERIAL Aluminum 6061 | | | | FINISH 63 μinch | NEXT ASSY | CHECKER | REV. |
| | | | | | | APPROVAL | B |
| | | | | | | SCALE: 1:1 | PROJECTION: |
| | | | | | | | SHEET 1 OF 1 |

| REV. | DATE | DCN # | DRAWING TREE # |
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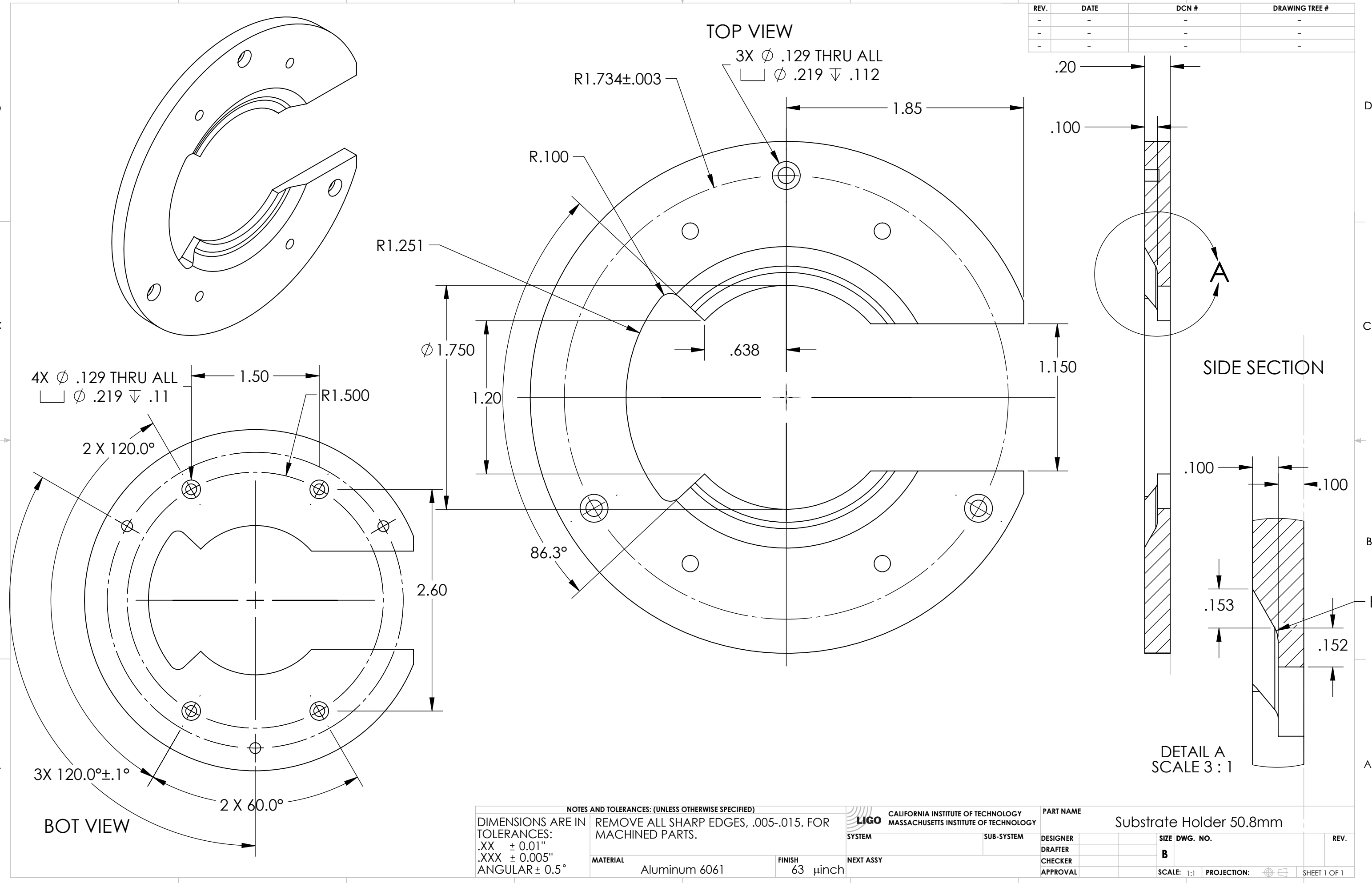
Sphere Base, PART PDM REV: , DRAWING PDM REV:

| NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) | |
|---|--------------------|
| DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5° | |
| REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. | |
| MATERIAL Aluminum 6061 | FINISH 63 μinch |

| | | | |
|---|------------|--------------------------|--------------------|
| CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | PART NAME Sphere Base | |
| SYSTEM | SUB-SYSTEM | DESIGNER | SIZE DWG. NO. B |
| DRAPER | | CHECKER | REV. |
| APPROVAL | | | |
| NEXT ASSY | | SCALE: 1:1 | PROJECTION: |
| | | SHEET 1 OF 1 | |

Substrate Holder 50.8mm, PART PDM REV: , DRAWING PDM REV:

| REV. | DATE | DCN # | DRAWING TREE # |
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| NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) | | | | LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | PART NAME | |
|---|--|---------------|--|---|--|-------------------------|--|
| DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5° | | | | REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. | | Substrate Holder 50.8mm | |
| MATERIAL | | FINISH | | NEXT ASSY | | DESIGNER | |
| Aluminum 6061 | | 63 μ inch | | | | DRAFTER | |
| | | | | | | CHECKER | |
| | | | | | | APPROVAL | |
| SCALE: 1:1 | | | | PROJECTION: | | SIZE DWG. NO. | |
| | | | | | | B | |
| SHEET 1 OF 1 | | | | | | REV. | |