

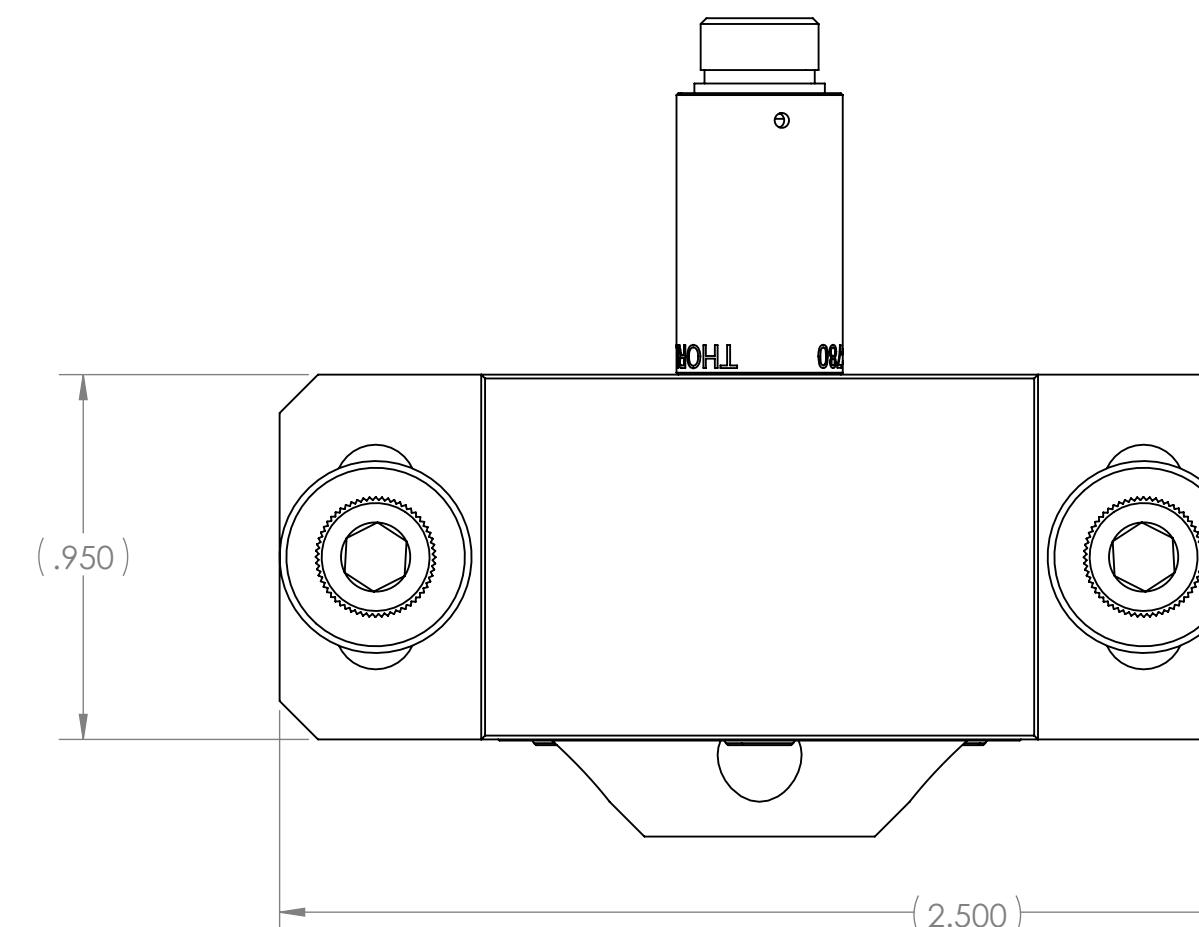
## PROPRIETARY AND CONFIDENTIAL

This document and all CAD files/electronic data contain information that is confidential and is the property of **MIT-PSFC** and may not be copied, published or disclosed to others, or used for any purpose other than review and manufacturing, without the expressed written authorization of an authorized officer of **MIT-PSFC**. This document must be kept only in **MIT-PSFC** files when not in use.

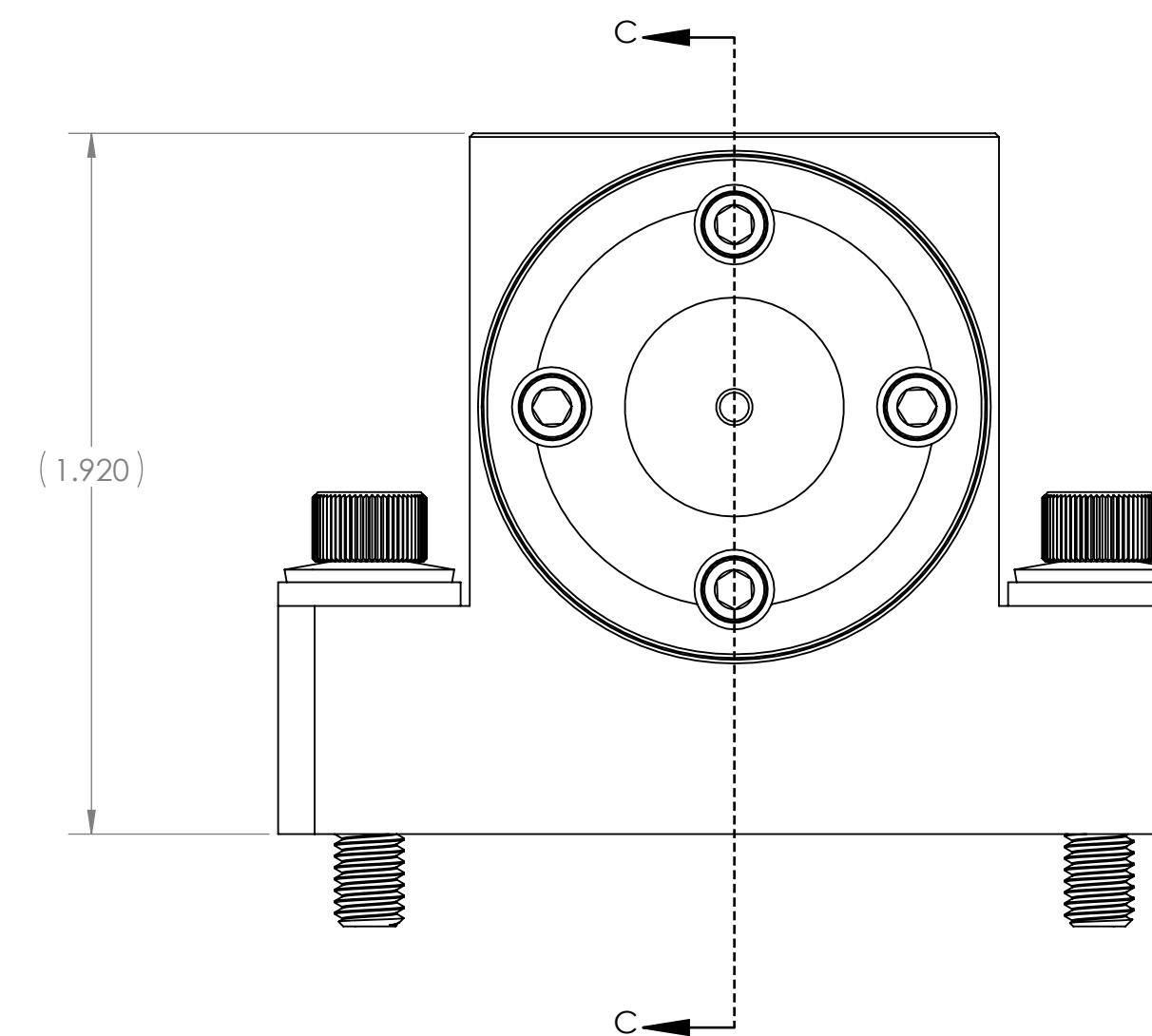
## REVISIONS

| REV. | DESCRIPTION | DATE | APPROVED |
|------|-------------|------|----------|
|      |             |      |          |

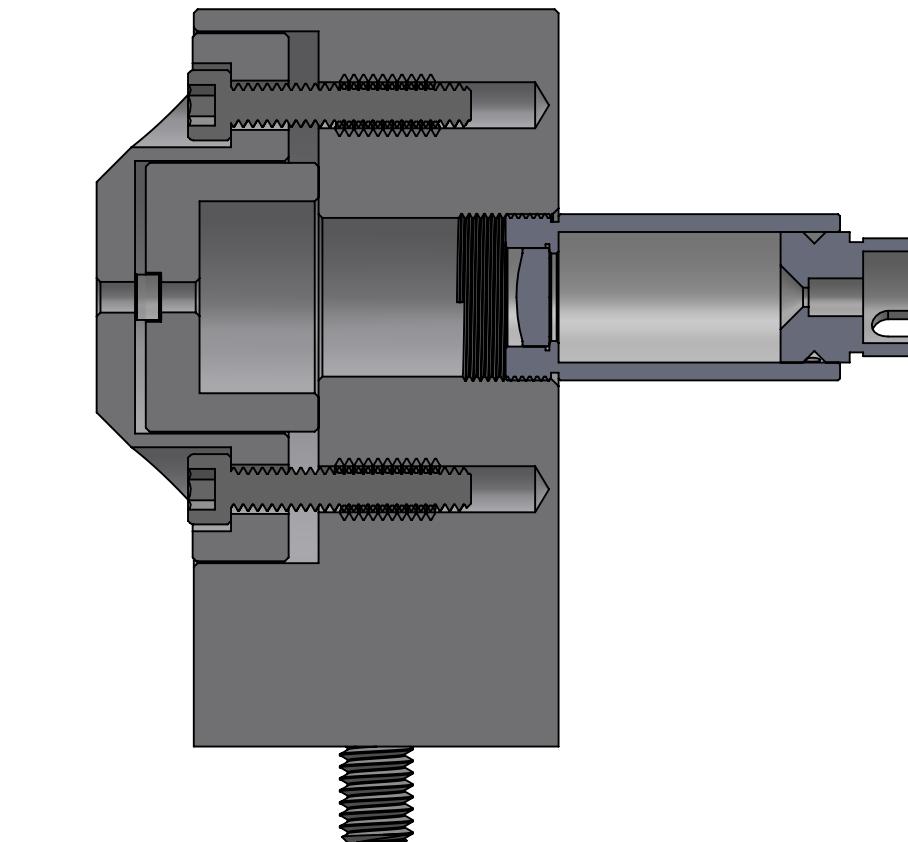
D



C



B



A

|                                                            |                         |                        |              |
|------------------------------------------------------------|-------------------------|------------------------|--------------|
| INTERPRET GEOMETRIC TOLERANCING PER:<br>ASME Y14.5-2009    | ASSEMBLY DRAWING        |                        |              |
| UNSPECIFIED TOLERANCES<br>REMOVE ALL BURRS AND SHARP EDGES | UNITS:<br><b>INCHES</b> | THIRD ANGLE PROJECTION |              |
| ANGLES $\pm 1/2^\circ$                                     | INCHES                  | MM                     |              |
| Ra 125 $\mu\text{in}$ ✓                                    | Ra 3.2 $\mu\text{m}$ ✓  |                        |              |
| 3 PLACES $\pm .005$                                        | 3 PLACES $\pm 0.1$      |                        |              |
| 2 PLACES $\pm .010$                                        | 2 PLACES $\pm 0.25$     |                        |              |
| 1 PLACE $\pm .100$                                         | 1 PLACE $\pm 0.75$      |                        |              |
|                                                            | PROJECT MANAGER:        | SIZE DWG. NO.          | REV.         |
|                                                            |                         | C N/A                  | A            |
|                                                            | DO NOT SCALE DRAWING    | SCALE: 1:1             | SHEET 1 OF 2 |

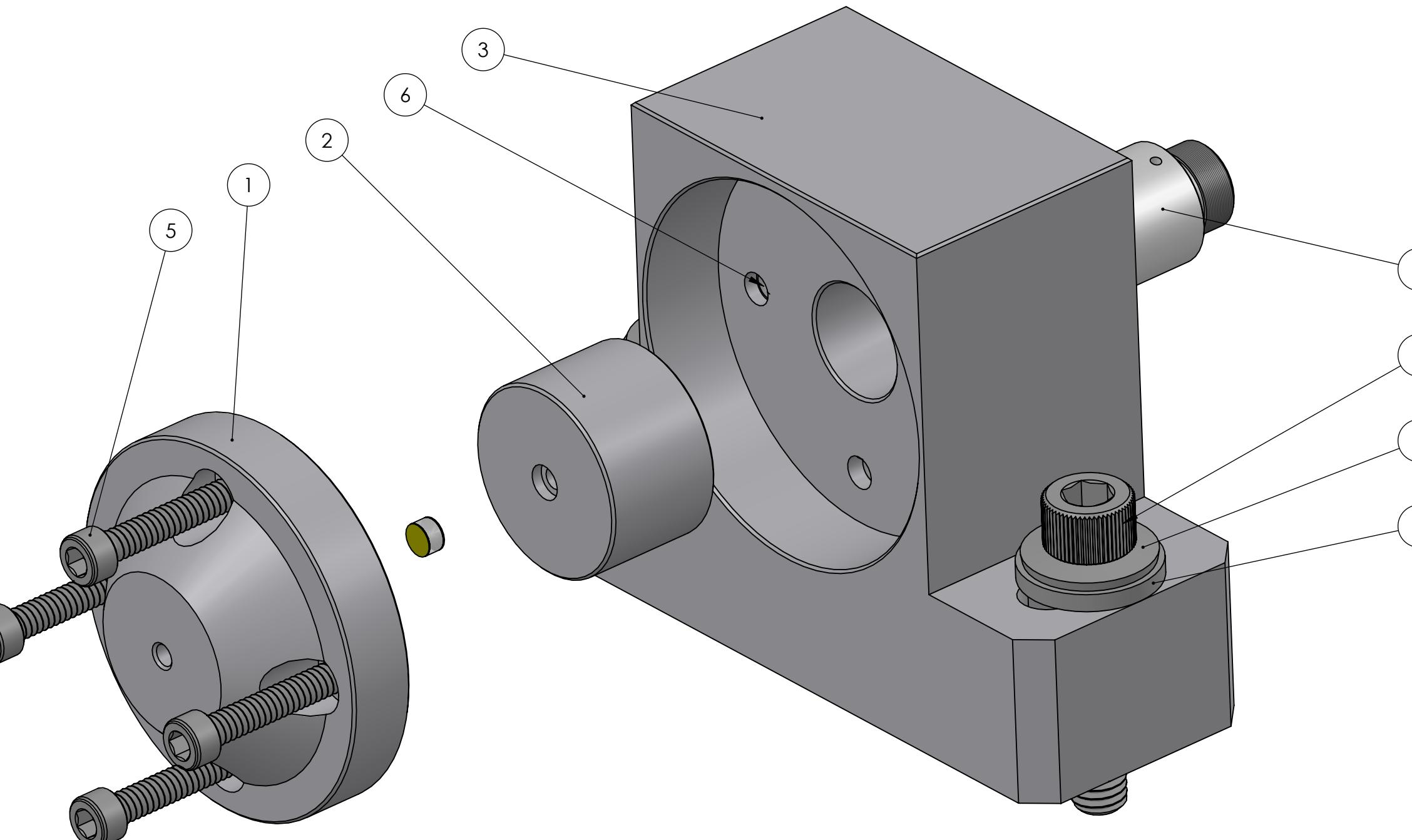
## PROPRIETARY AND CONFIDENTIAL

This document and all CAD files/electronic data contain information that is confidential and is the property of **MIT-PSFC** and may not be copied, published or disclosed to others, or used for any purpose other than review and manufacturing, without the expressed written authorization of an authorized officer of **MIT-PSFC**. This document must be kept only in **MIT-PSFC** files when not in use.

## REVISIONS

| REV. | DESCRIPTION | DATE | APPROVED |
|------|-------------|------|----------|
|      |             |      |          |

D



| ITEM NO. | DESCRIPTION                                                                                            | Vendor        | PartNo     | MakeOrBuy | QTY. |
|----------|--------------------------------------------------------------------------------------------------------|---------------|------------|-----------|------|
| 1        | 3MM CONE                                                                                               | N/A           | N/A        | Make      | 1    |
| 2        | 3MM SLEEVE                                                                                             | N/A           | N/A        | Make      | 1    |
| 3        | HF BASE                                                                                                | N/A           | N/A        | Make      | 1    |
| 4        | 18-8 Stainless Steel Socket Head Screw, 10-32 Thread Size, 1" Long                                     | McMaster-Carr | 92196A274  | Buy       | 2    |
| 5        | Super-Corrosion-Resistant 316 Stainless Steel Socket Head Screw, 4-40 Thread Size, 5/8" Long           | McMaster-Carr | 92185A111  | Buy       | 4    |
| 6        | 18-8 Stainless Steel Helical Insert, 4-40 Right-Hand Thread, 0.280" Long                               | McMaster-Carr | 91732A702  | Buy       | 4    |
| 7        | Belleville Spring Lock Washer, 17-7 PH Stainless Steel, for Number 10 Screw Size, 0.197" ID, 0.465" OD | McMaster-Carr | 91235A109  | Buy       | 2    |
| 8        | 316 Stainless Steel SAE Washer for Number 10 Screw Size, 0.219" ID, 0.5" OD                            | McMaster-Carr | 91950A027  | Buy       | 2    |
| 9        | Fiber Collimation Pkg.                                                                                 | ThorLabs      | F280FC-780 | Buy       | 1    |

|                                                            |                         |                               |                                           |
|------------------------------------------------------------|-------------------------|-------------------------------|-------------------------------------------|
| INTERPRET GEOMETRIC TOLERANCING PER:<br>ASME Y14.5-2009    | ASSEMBLY DRAWING        |                               |                                           |
| UNSPECIFIED TOLERANCES<br>REMOVE ALL BURRS AND SHARP EDGES | UNITS:<br><b>INCHES</b> | THIRD ANGLE PROJECTION        | TITLE:<br><b>RTF LENS HOLDING FIXTURE</b> |
| ANGLES $\pm 1/2^\circ$                                     |                         |                               |                                           |
| INCHES      MM                                             |                         |                               |                                           |
| Ra 125 $\mu\text{m}$ ✓      Ra 3.2 $\mu\text{m}$ ✓         | 3 PLACES $\pm .005$     | 3 PLACES $\pm .01$            | DRAWN BY:<br><b>J.Estrada</b>             |
| 2 PLACES $\pm .010$                                        | 2 PLACES $\pm .025$     | DATE: <b>3/8/2024</b>         | ENGINEERING APPR.:<br><b>R.Vieira</b>     |
| 1 PLACE $\pm .100$                                         | 1 PLACE $\pm .75$       | DATE: <b>3/8/2024</b>         | PROJECT MANAGER:                          |
| DO NOT SCALE DRAWING                                       |                         | SIZE DWG. NO.<br><b>C N/A</b> |                                           |
|                                                            |                         | REV.<br><b>A</b>              | SCALE: <b>1:1</b>                         |
| SHEET 2 OF 2                                               |                         |                               |                                           |

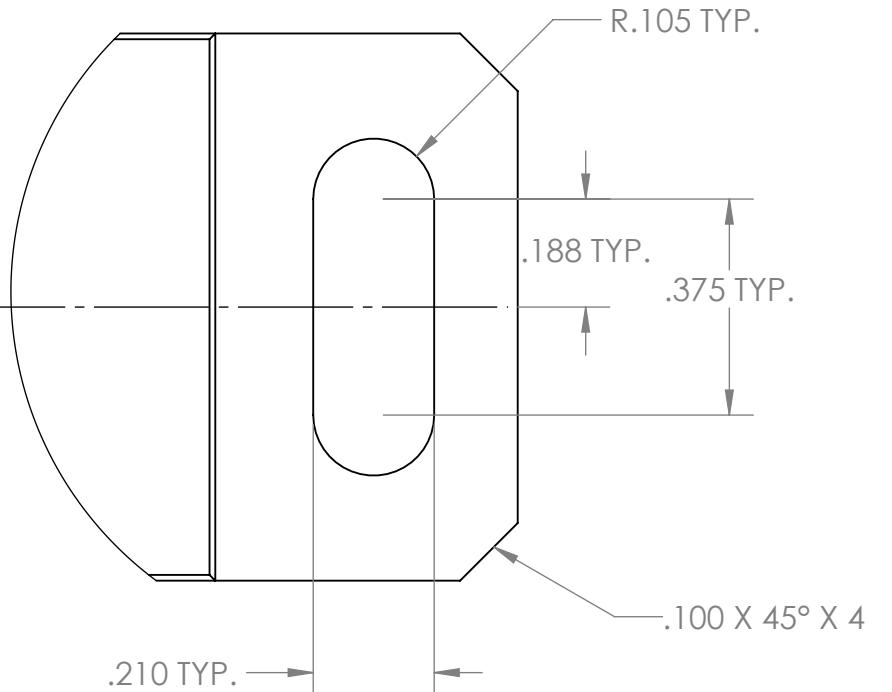
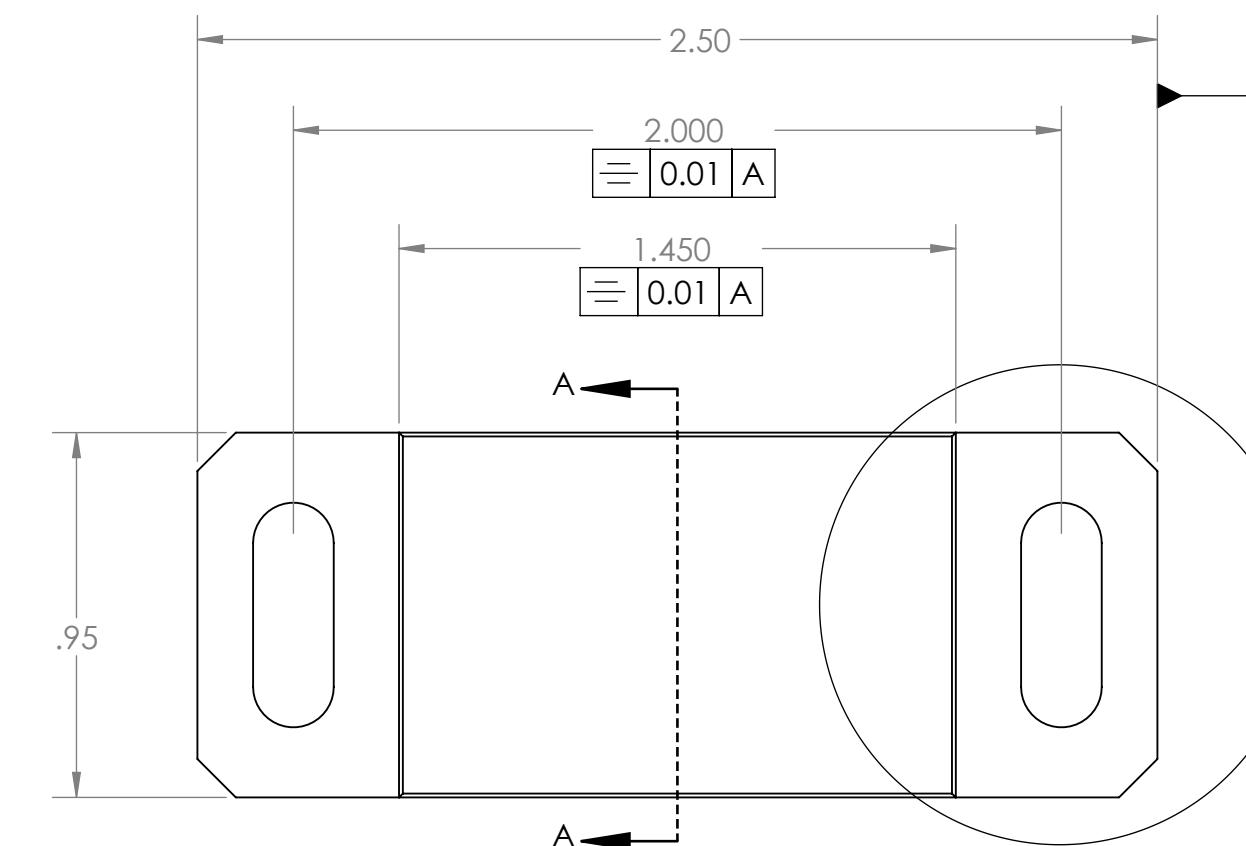
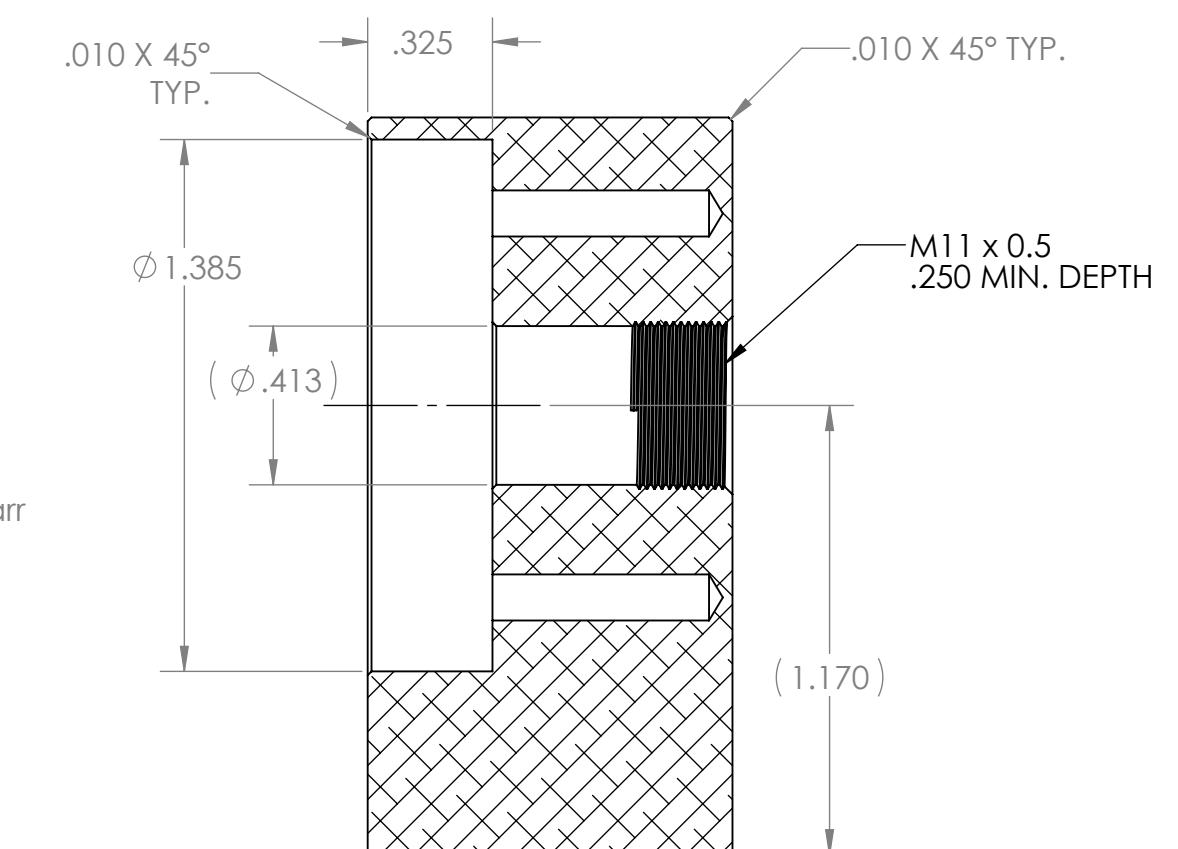
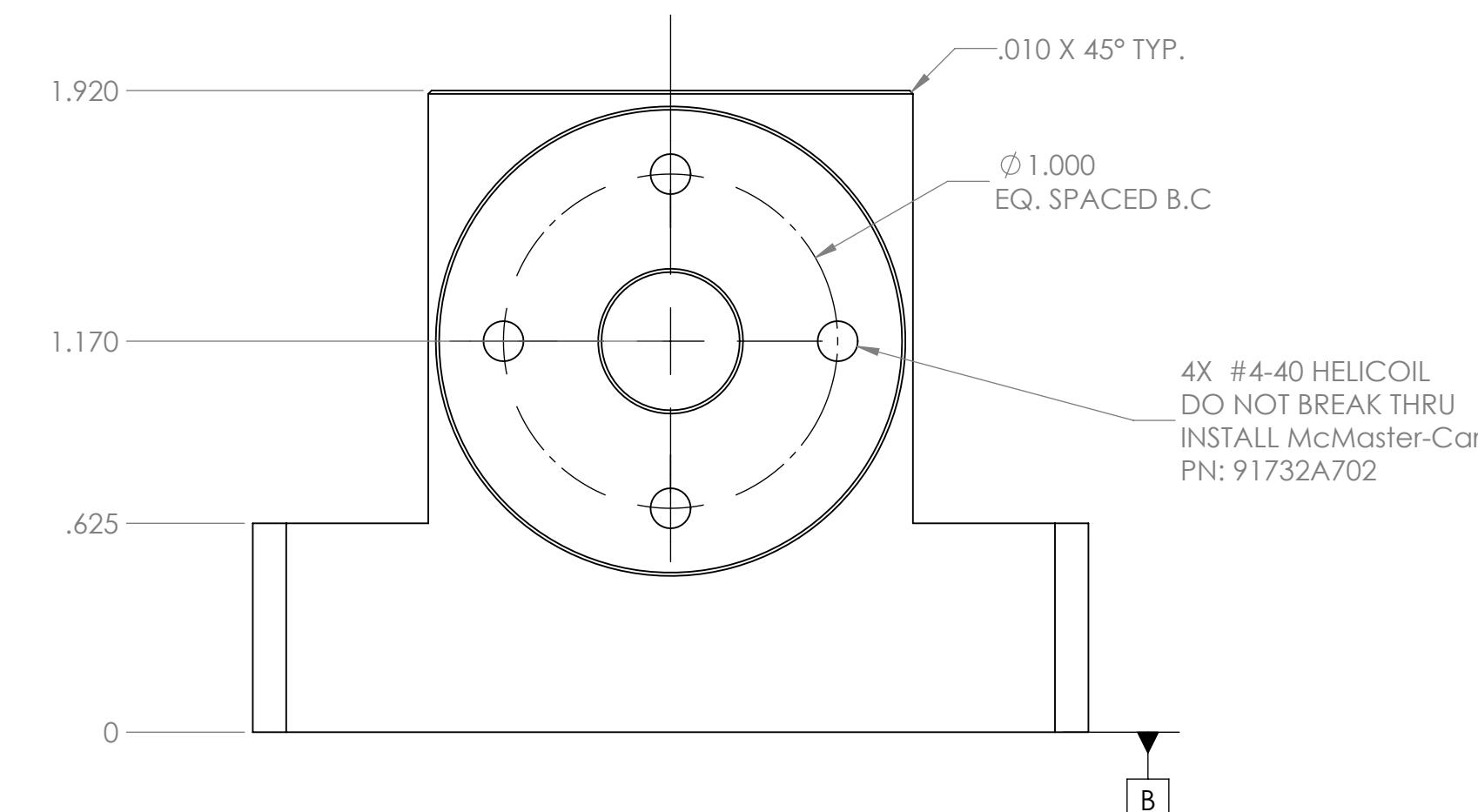
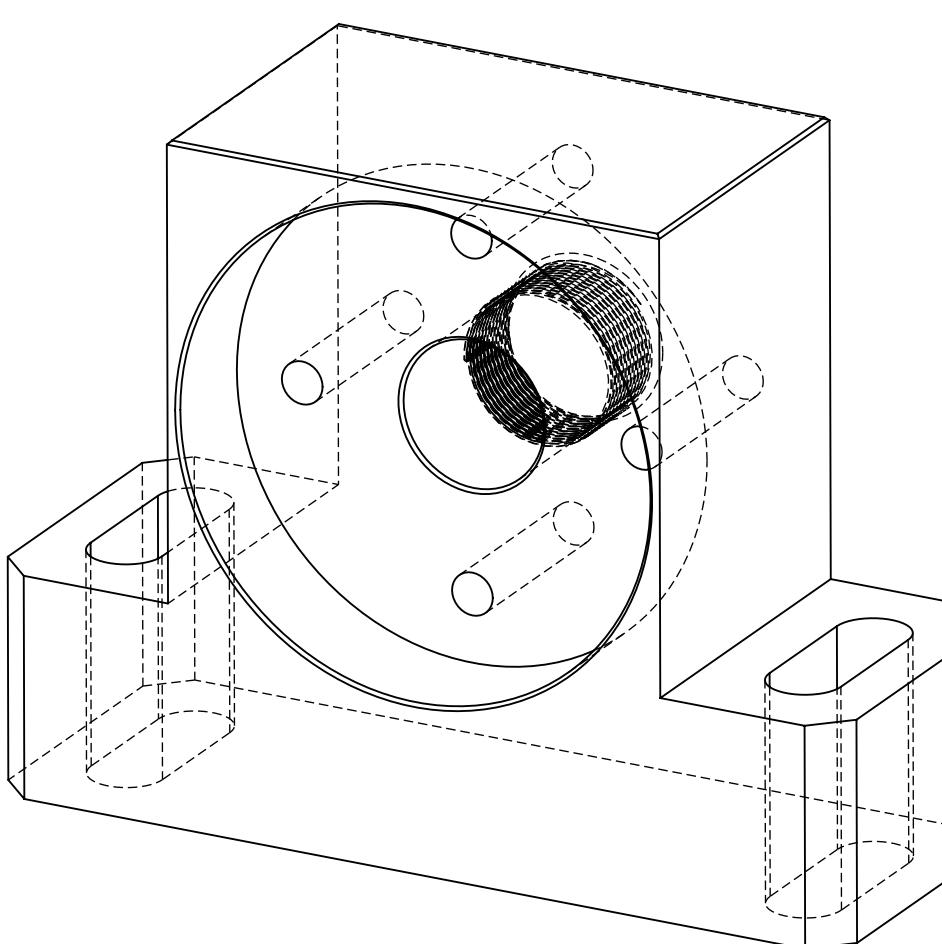
## PROPRIETARY AND CONFIDENTIAL

This document and all CAD files/electronic data contain information that is confidential and is the property of **MIT-PSFC** and may not be copied, published or disclosed to others, or used for any purpose other than review and manufacturing, without the expressed written authorization of an authorized officer of **MIT-PSFC**. This document must be kept only in **MIT-PSFC** files when not in use.

## REVISIONS

| REV. | DESCRIPTION     | DATE      | APPROVED |
|------|-----------------|-----------|----------|
| A    | INITIAL RELEASE | 3/11/2024 | R.VIEIRA |

D

DETAIL B  
SCALE 3 : 1

|                                                            |                                   |                             |                                      |
|------------------------------------------------------------|-----------------------------------|-----------------------------|--------------------------------------|
| INTERPRET GEOMETRIC TOLERANCING PER:<br>ASME Y14.5-2009    | UNITS:<br><b>INCHES</b>           | WEIGHT:<br><b>0.10 Lbs.</b> | <b>MIT-PSFC</b>                      |
| UNSPECIFIED TOLERANCES<br>REMOVE ALL BURRS AND SHARP EDGES | MATERIAL:<br><b>Aluminum 6061</b> | FINISH:<br>                 | TITLE:<br><b>HF BASE</b>             |
| ANGLES $\pm 1/2^\circ$                                     | INCHES                            | MM                          | THIRD ANGLE PROJECTION               |
|                                                            | Ra 125 $\mu\text{in}$ ✓           | Ra 3.2 $\mu\text{m}$ ✓      | DRAWN BY:<br><b>J.Estrada</b>        |
| 3 PLACES $\pm .005$                                        | 3 PLACES $\pm 0.1$                | 2 PLACES $\pm 0.25$         | DATE:<br><b>3/8/2024</b>             |
| 2 PLACES $\pm .010$                                        | 1 PLACE $\pm .100$                | 1 PLACE $\pm 0.75$          | ENGINEERING APPR.<br><b>R.Vieira</b> |
| 1 PLACE $\pm .100$                                         |                                   |                             | DATE:<br><b>3/8/2024</b>             |
|                                                            |                                   |                             | PROJECT MANAGER:                     |
| DO NOT SCALE DRAWING                                       |                                   | SIZE DWG. NO.               | <b>C N/A</b>                         |
| REV. <b>A</b>                                              |                                   | SCALE: 2:1                  | SHEET 1 OF 1                         |

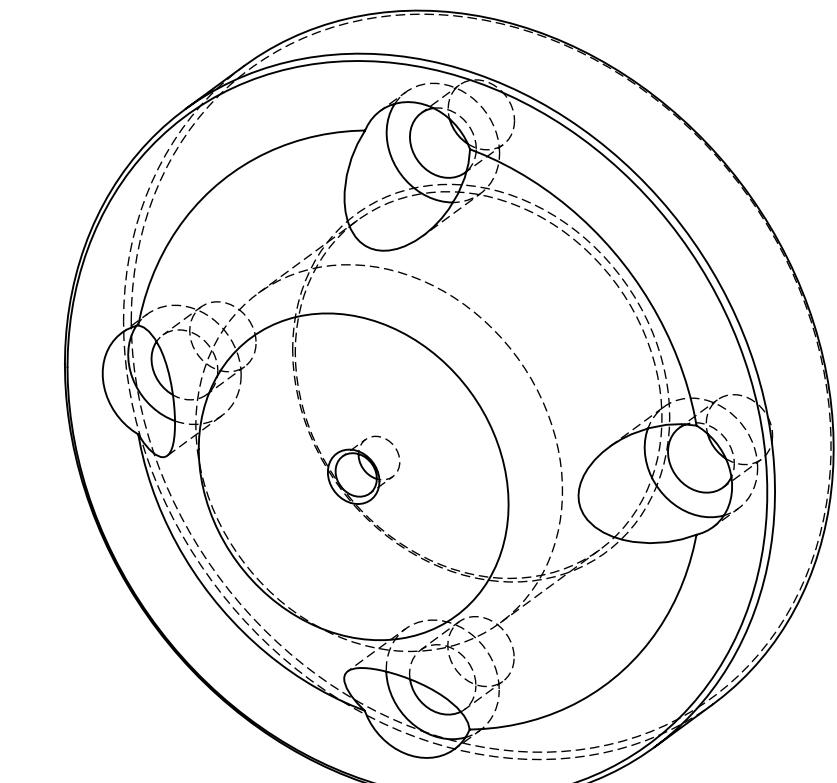
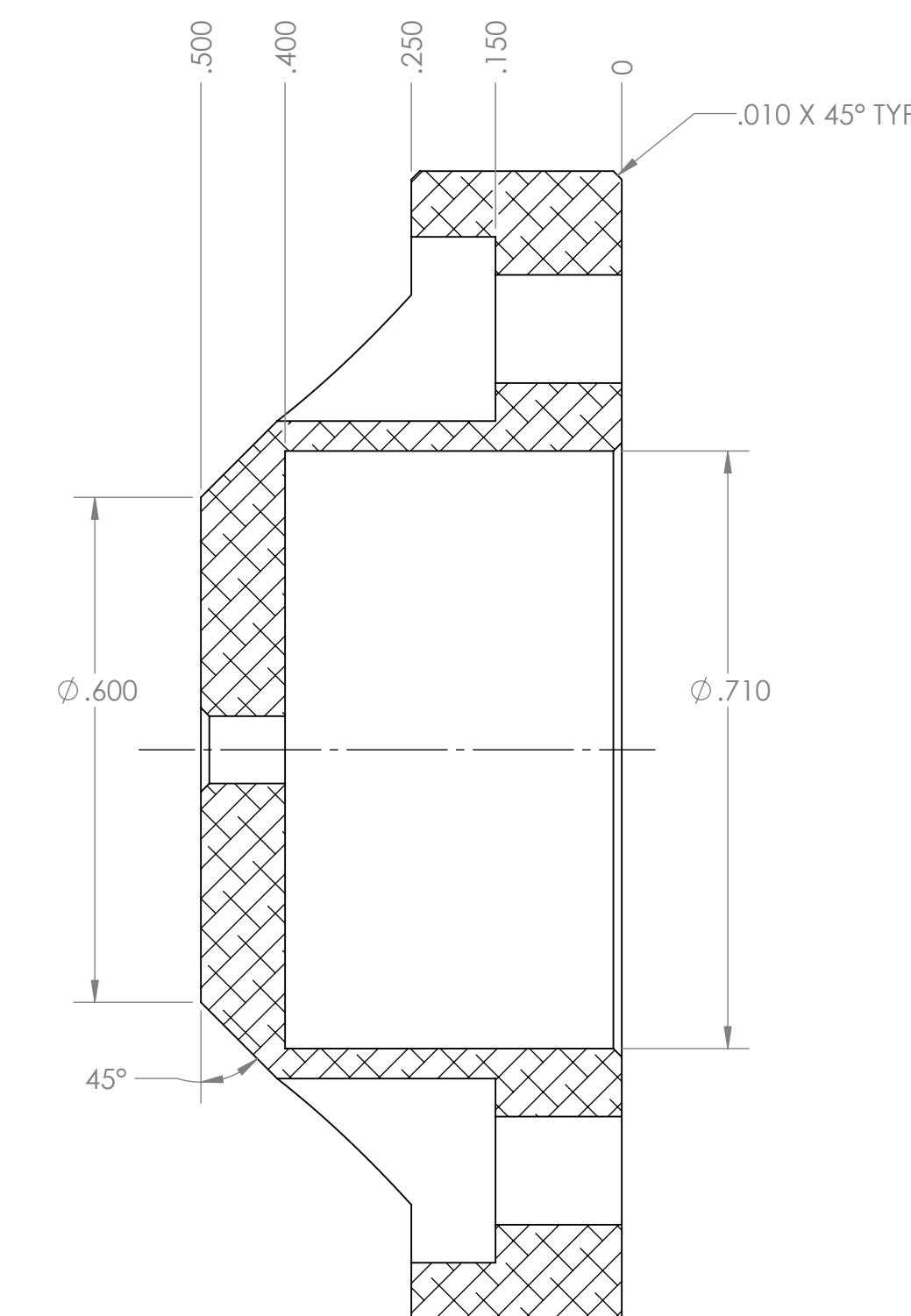
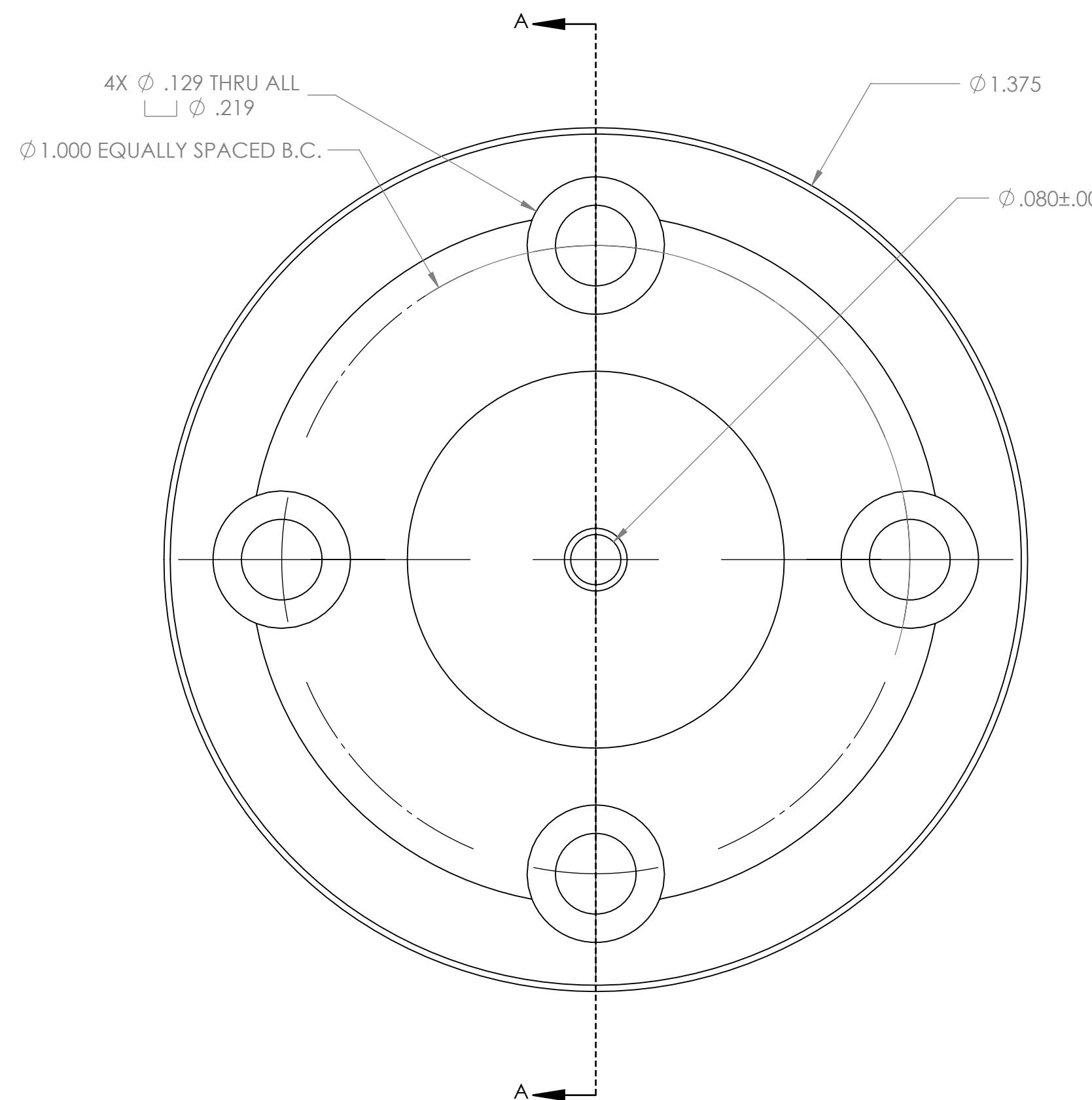
## PROPRIETARY AND CONFIDENTIAL

This document and all CAD files/electronic data contain information that is confidential and is the property of **MIT-PSFC** and may not be copied, published or disclosed to others, or used for any purpose other than review and manufacturing, without the expressed written authorization of an authorized officer of **MIT-PSFC**. This document must be kept only in **MIT-PSFC** files when not in use.

## REVISIONS

| REV. | DESCRIPTION     | DATE      | APPROVED |
|------|-----------------|-----------|----------|
| A    | INITIAL RELEASE | 3/11/2024 | R.VIEIRA |

D



SECTION A-A  
SCALE 5 : 1

A Notes:

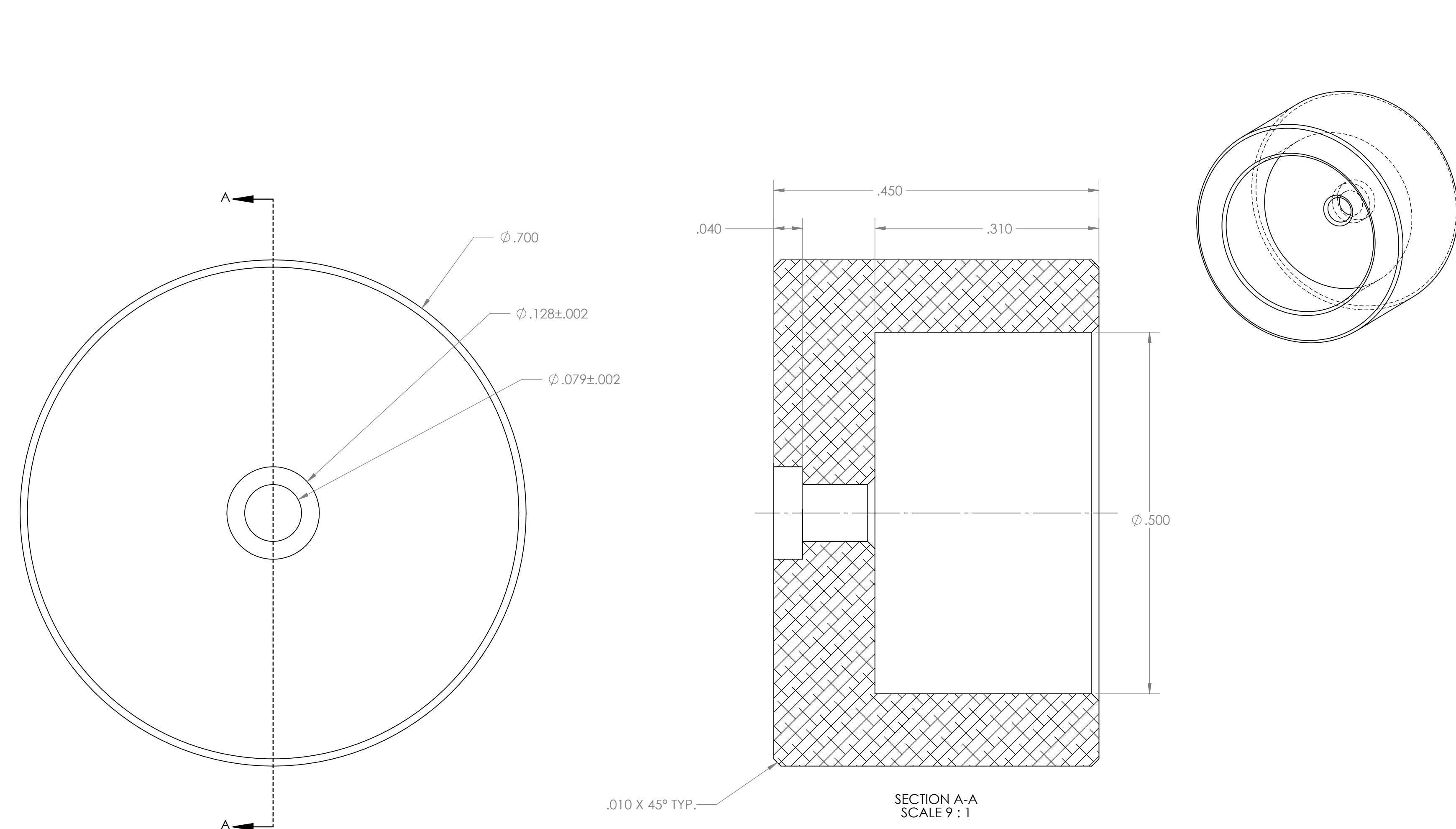
|                                                            |                                   |                             |                 |
|------------------------------------------------------------|-----------------------------------|-----------------------------|-----------------|
| INTERPRET GEOMETRIC TOLERANCING PER:<br>ASME Y14.5-2009    | UNITS:<br><b>INCHES</b>           | WEIGHT:<br><b>0.10 Lbs.</b> | <b>MIT-PSFC</b> |
| UNSPECIFIED TOLERANCES<br>REMOVE ALL BURRS AND SHARP EDGES | MATERIAL:<br><b>Aluminum 6061</b> | THIRD ANGLE PROJECTION      |                 |
| ANGLES $\pm 1/2^\circ$                                     | FINISH:                           |                             |                 |
| INCHES      MM                                             | N/A                               |                             |                 |
| Ra 125 $\mu\text{in}$ ✓                                    | Ra 3.2 $\mu\text{m}$ ✓            |                             |                 |
| 3 PLACES $\pm .005$                                        | 3 PLACES $\pm 0.1$                |                             |                 |
| 2 PLACES $\pm .010$                                        | 2 PLACES $\pm 0.25$               |                             |                 |
| 1 PLACE $\pm .100$                                         | 1 PLACE $\pm 0.75$                |                             |                 |
|                                                            | PROJECT MANAGER:                  |                             |                 |
| DO NOT SCALE DRAWING                                       |                                   |                             |                 |
| SIZE                                                       | DWG. NO.                          |                             |                 |
| C                                                          | N/A                               |                             |                 |
| REV.                                                       |                                   |                             |                 |
| A                                                          |                                   |                             |                 |
| SCALE:                                                     | 2:1                               |                             |                 |
| SHEET 1 OF 1                                               |                                   |                             |                 |

## PROPRIETARY AND CONFIDENTIAL

This document and all CAD files/electronic data contain information that is confidential and is the property of **MIT-PSFC** and may not be copied, published or disclosed to others, or used for any purpose other than review and manufacturing, without the expressed written authorization of an authorized officer of **MIT-PSFC**. This document must be kept only in **MIT-PSFC** files when not in use.

## REVISIONS

| REV. | DESCRIPTION     | DATE      | APPROVED |
|------|-----------------|-----------|----------|
| A    | INITIAL RELEASE | 3/11/2024 | R.VIEIRA |



Notes:

|                                                            |                                                |                                      |                          |
|------------------------------------------------------------|------------------------------------------------|--------------------------------------|--------------------------|
| INTERPRET GEOMETRIC TOLERANCING PER:<br>ASME Y14.5-2009    | UNITS:<br><b>INCHES</b>                        | WEIGHT:<br><b>0.10 Lbs.</b>          | <b>MIT-PSFC</b>          |
| UNSPECIFIED TOLERANCES<br>REMOVE ALL BURRS AND SHARP EDGES | MATERIAL:<br><b>Aluminum 6061</b>              | THIRD ANGLE PROJECTION               |                          |
| ANGLES $\pm 1/2^\circ$                                     | FINISH:                                        |                                      |                          |
| INCHES      MM                                             | N/A                                            |                                      |                          |
| Ra 125 $\mu\text{in}$ ✓      3 PLACES $\pm .005$           | Ra 3.2 $\mu\text{m}$ ✓      3 PLACES $\pm .01$ | DRAWN BY:<br><b>J.Estrada</b>        | DATE:<br><b>3/8/2024</b> |
| 2 PLACES $\pm .010$                                        | 2 PLACES $\pm .025$                            | ENGINEERING APPR.<br><b>R.Vieira</b> | DATE:<br><b>3/8/2024</b> |
| 1 PLACE $\pm .100$                                         | 1 PLACE $\pm .75$                              | PROJECT MANAGER:                     |                          |
| DO NOT SCALE DRAWING                                       |                                                | SIZE                                 | DWG. NO.                 |
|                                                            |                                                | C                                    | N/A                      |
|                                                            |                                                | REV.                                 | A                        |
|                                                            |                                                | SCALE:                               | 4:1                      |
|                                                            |                                                | SHEET 1 OF 1                         |                          |