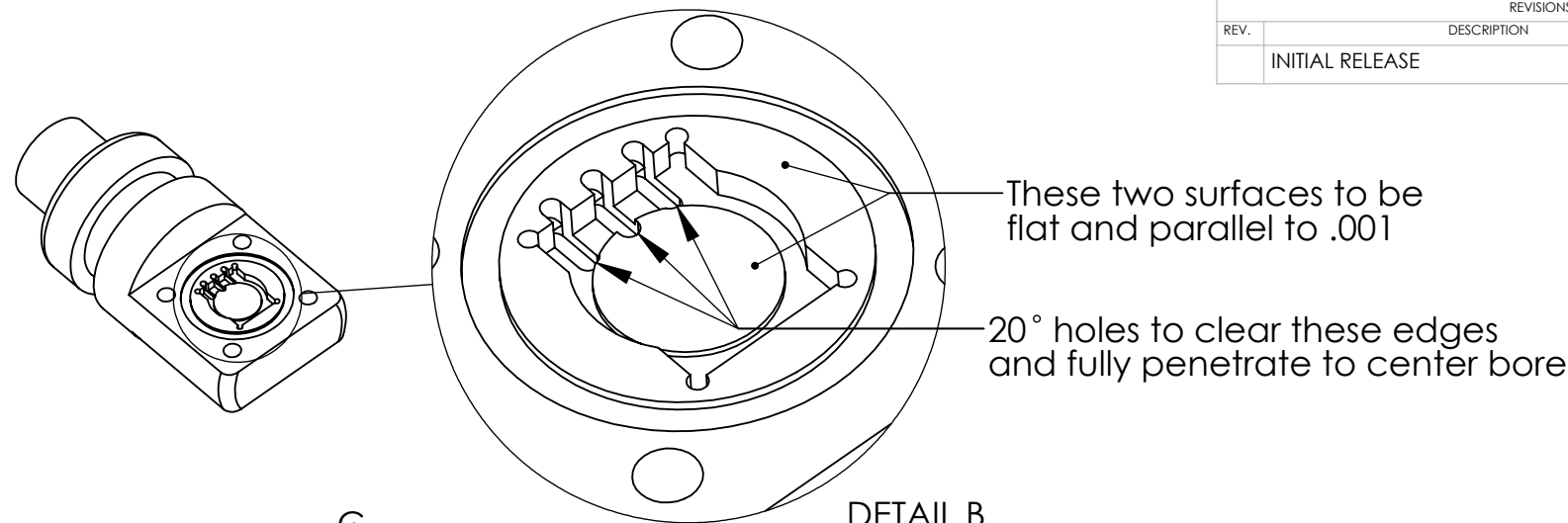
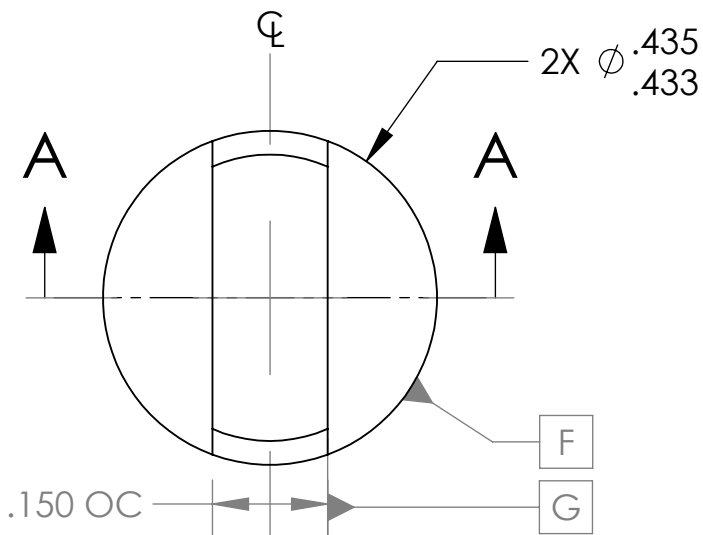
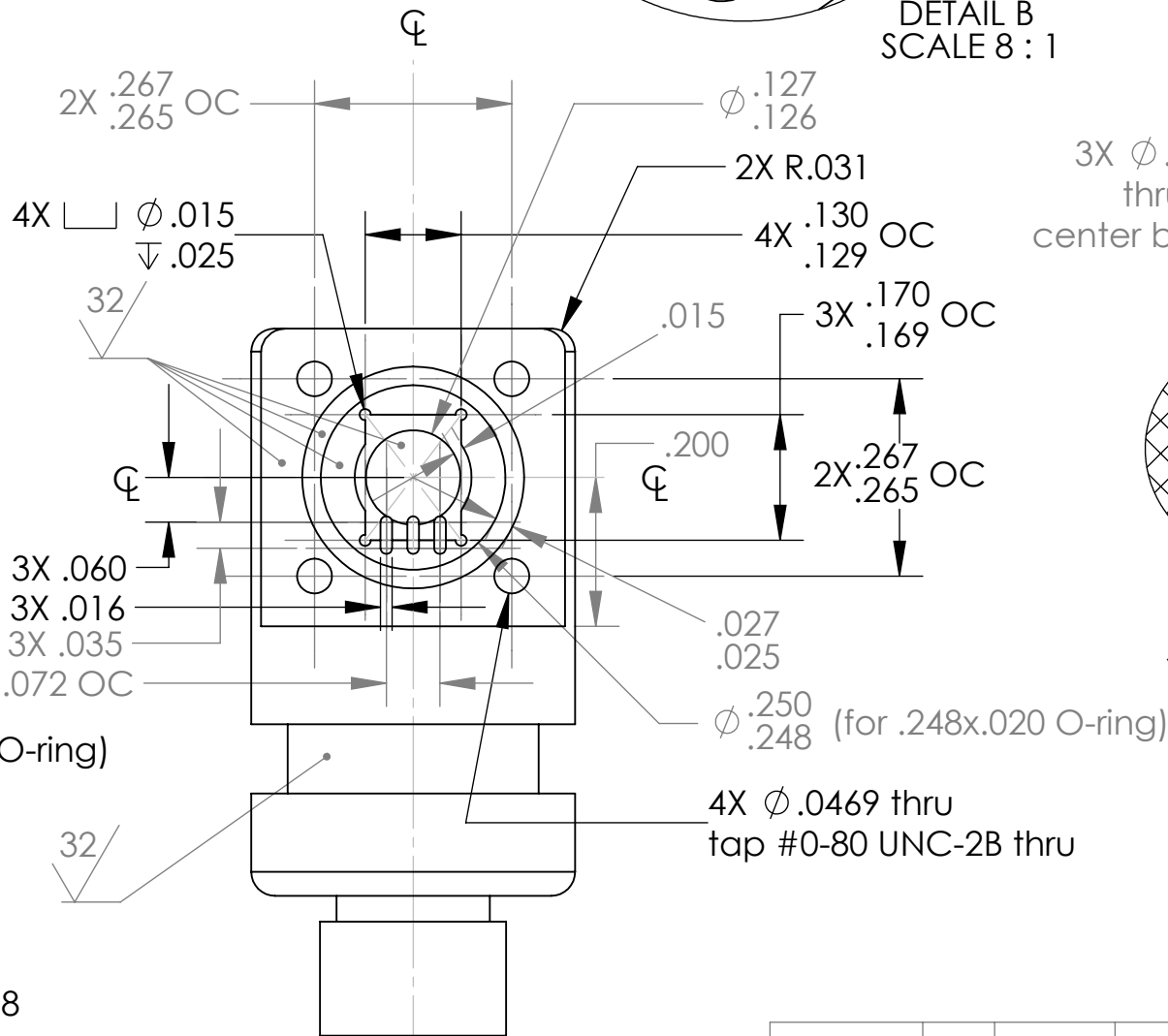


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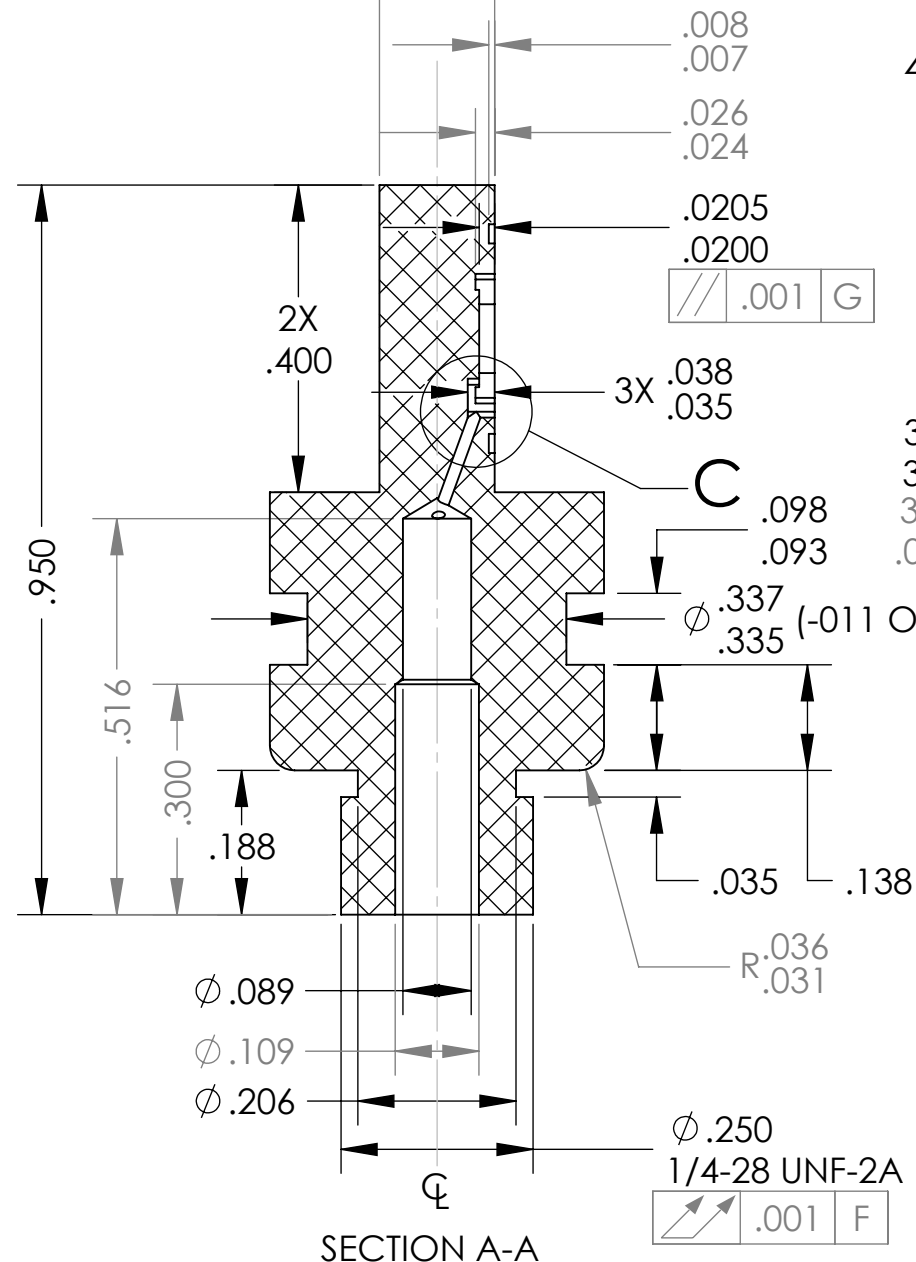
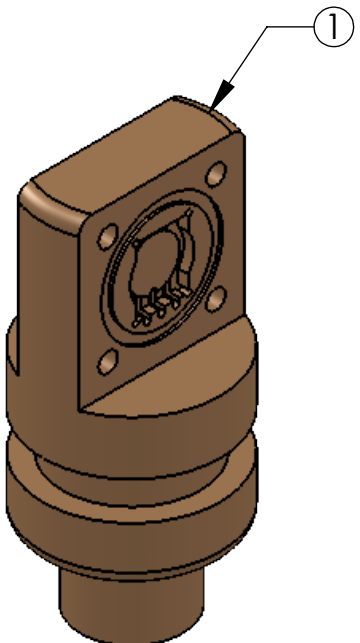
| REVISIONS       |             |      |          |
|-----------------|-------------|------|----------|
| REV.            | DESCRIPTION | DATE | APPROVED |
| INITIAL RELEASE |             |      |          |



DETAIL B  
SCALE 8 : 1



DETAIL C  
SCALE 8 : 1



NOTE 7:  
The face O-ring groove to be machined with a custom tool so that all machining cuts are co-radial with the groove.

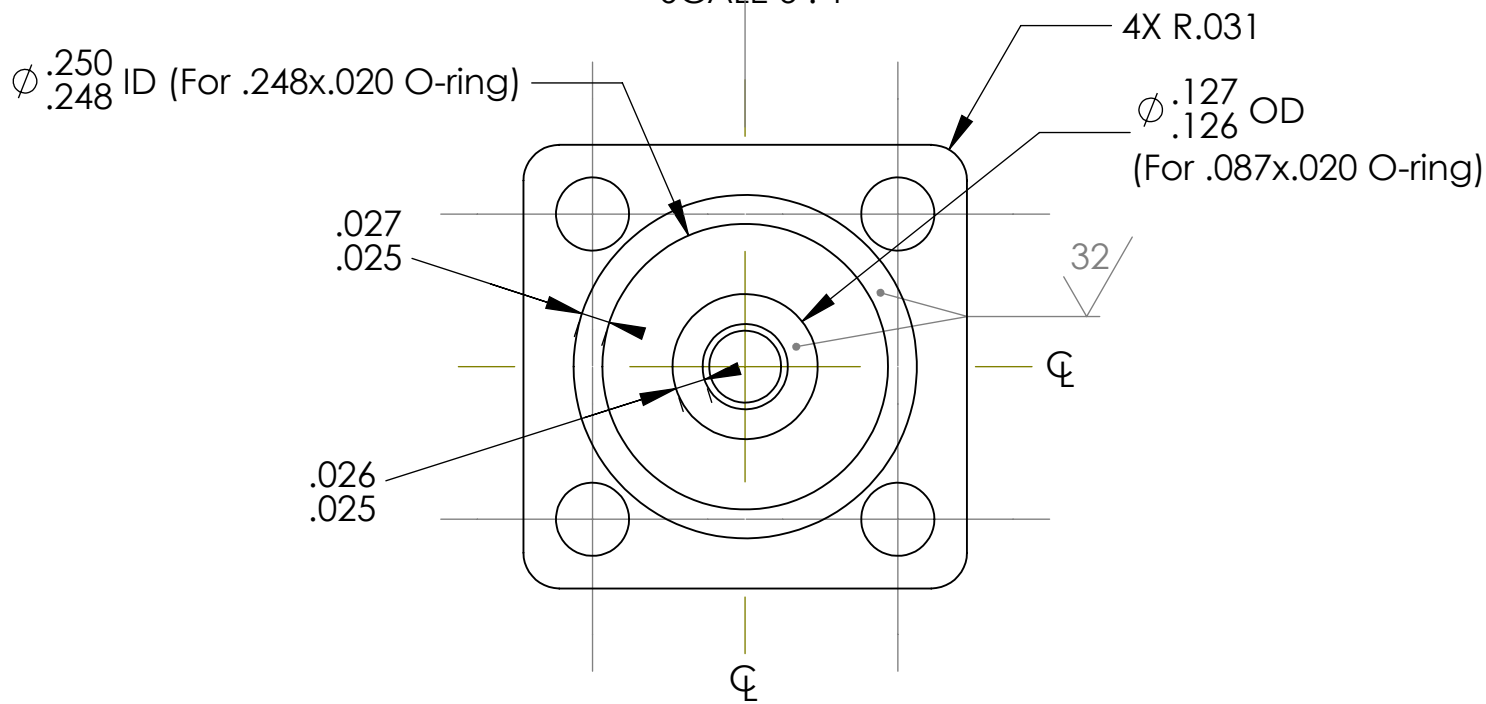
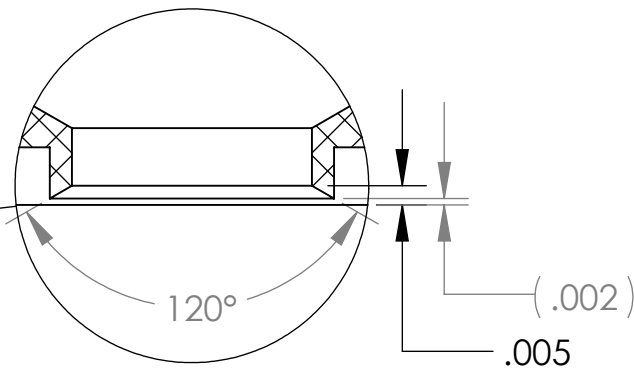
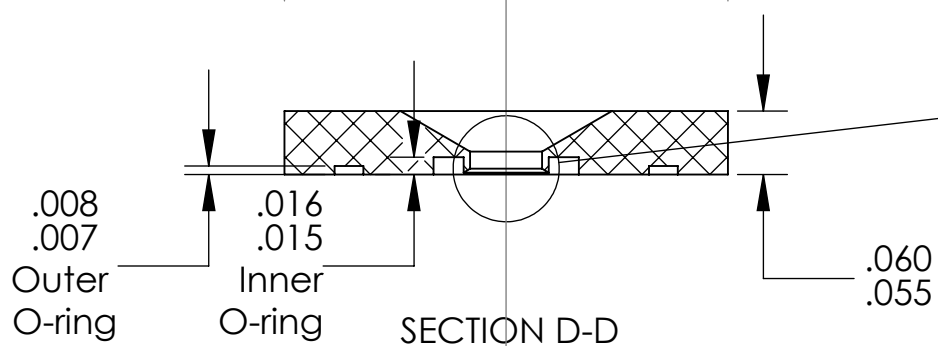
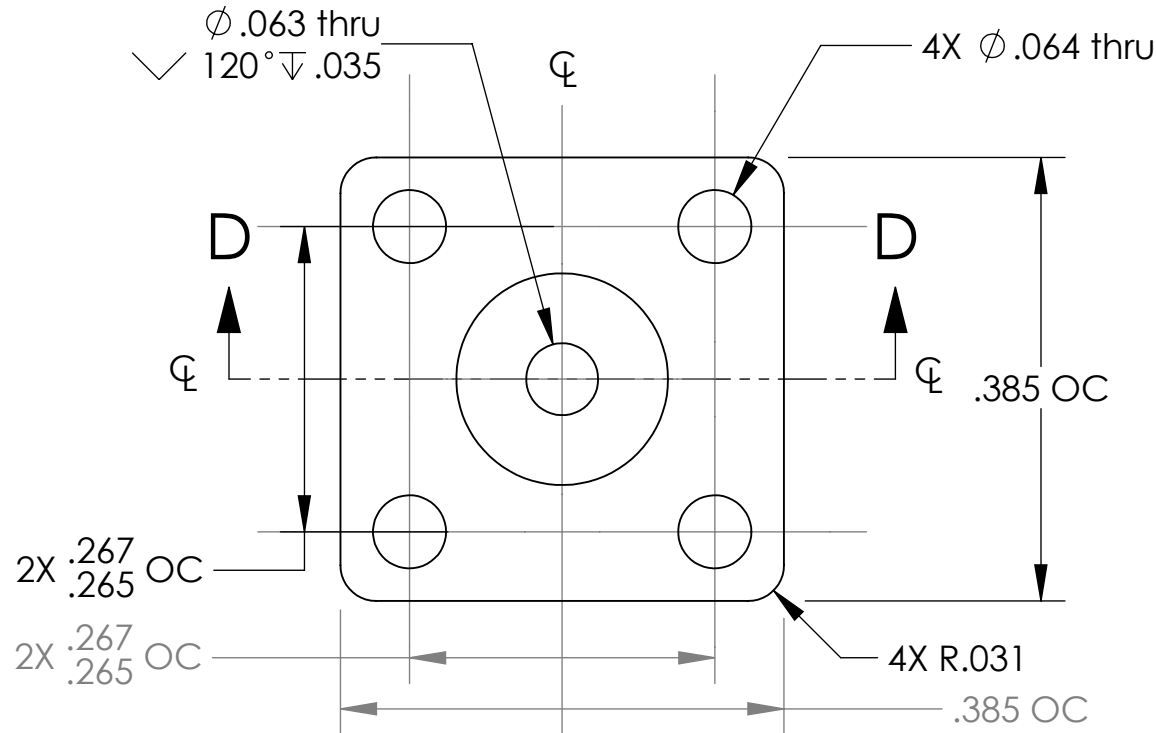
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|-----------------------|--|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------|--|
| 1                     |  | 1                | DuraFET Mount Ver 3                                                                                                                                                                                                                                                                                                                             |                     |                      | PEEK Rod (natural) or Ultem/PEI Rod (natural)                                                                               |                        |                                |  |
| Item No.              |  | Qty              | Part No.                                                                                                                                                                                                                                                                                                                                        | Description         |                      |                                                                                                                             | Material Specification |                                |  |
| Bill of Materials     |  |                  |                                                                                                                                                                                                                                                                                                                                                 |                     |                      |                                                                                                                             |                        |                                |  |
| Shop / Q.C.           |  |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                      |                     |                      | APPROVALS                                                                                                                   |                        | DATE                           |  |
| Inspector             |  |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                            | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1°                                                                                                               | DRAWN<br>Hans Jannasch | 10/4/16                        |  |
| Shop Foreman          |  |                  | 1. DIMENSIONS ARE IN INCHES<br>2. DIMENSION LIMITS HELD AFTER PLATING.<br>3. REMOVE BURRS AND SHARP EDGES .015 MAX.<br>4. MACHINED FILLET RADII .0150-.030.<br>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005<br>6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE. |                     |                      |                                                                                                                             | ENGINEER               |                                |  |
| Engineer              |  |                  |                                                                                                                                                                                                                                                                                                                                                 |                     |                      |                                                                                                                             | CHECKED                |                                |  |
| NEXT ASSY Description |  | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                                                 |                     |                      |                                                                                                                             | PROJECT NO.            | 901217                         |  |
|                       |  |                  | PROJECT                                                                                                                                                                                                                                                                                                                                         | Chem Sensors        |                      | Monterey Bay Aquarium Research Institute<br><br>MBARI<br>7700 Sandholdt RD.<br>Moss Landing, CA 95039<br>PH: (831) 775-1700 |                        |                                |  |
|                       |  |                  | Common DuraFET Ver 3                                                                                                                                                                                                                                                                                                                            |                     |                      | Common DuraFET Ver 3                                                                                                        |                        |                                |  |
|                       |  |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                     |                      | WEIGHT                                                                                                                      |                        | SIZE<br>B                      |  |
|                       |  |                  |                                                                                                                                                                                                                                                                                                                                                 |                     |                      | DWG. NO.<br>306jahaCommonDF_Ver3                                                                                            |                        | REV.                           |  |
|                       |  |                  |                                                                                                                                                                                                                                                                                                                                                 |                     |                      | SCALE 1:3                                                                                                                   |                        | CAD FILE: Tornado/chem/SWfiles |  |
|                       |  |                  |                                                                                                                                                                                                                                                                                                                                                 |                     |                      | SHEET 1 OF 2                                                                                                                |                        |                                |  |

Monterey Bay Aquarium Research Institute  
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7700 Sandholdt RD.  
Moss Landing, CA 95039  
PH: (831) 775-1700

Common DuraFET Ver 3

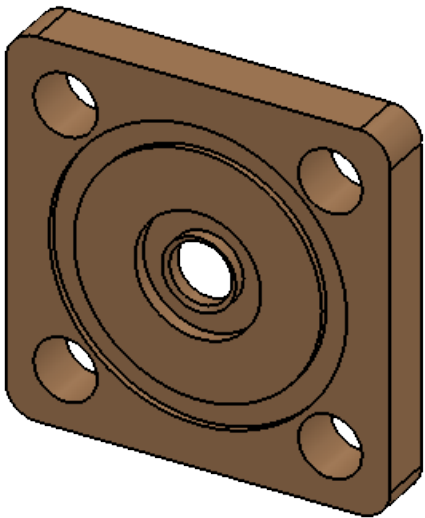
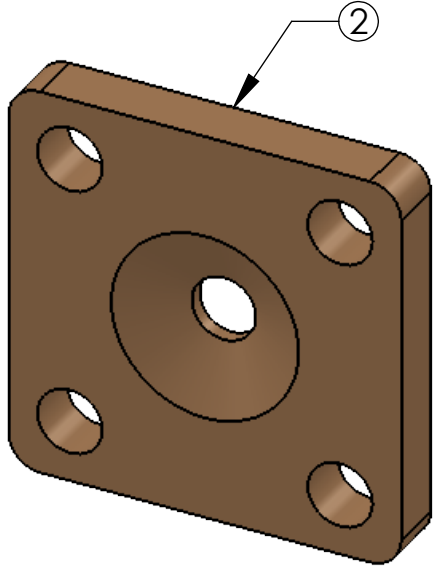
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| REVISIONS |                 |      |          |
|-----------|-----------------|------|----------|
| REV.      | DESCRIPTION     | DATE | APPROVED |
| 1         | INITIAL RELEASE |      |          |



DETAIL E  
SCALE 20 : 1

NOTE 7:  
Both O-ring grooves to be machined with a custom tool so that all machining cuts are co-radial with the groove.



| 2                     |                  | 1                                                                                                         | DuraFET Cover Ver 3 |                      | PEEK Rod (natural) or Ultem/PEI Rod (natural) |                                                                                                                                    |
|-----------------------|------------------|-----------------------------------------------------------------------------------------------------------|---------------------|----------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Item No.              |                  | Qty                                                                                                       | Part No.            | Description          | Material Specification                        |                                                                                                                                    |
| Bill of Materials     |                  |                                                                                                           |                     |                      |                                               |                                                                                                                                    |
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                |                     |                      | APPROVALS                                     | DATE                                                                                                                               |
| Inspector             |                  | 1 PLACE DIM<br>±1/16                                                                                      | 2 PLACE DIM<br>±.02 | 3 PLACE DIM<br>±.005 | ANGLES<br>±1°                                 | 10/4/16                                                                                                                            |
| Shop Foreman          |                  | 1. DIMENSIONS ARE IN INCHES                                                                               |                     |                      | DRAWN<br>Hans Jannasch                        | Monterey Bay Aquarium Research Institute<br><br><b>MBARI</b><br>7700 Sandholdt RD.<br>Moss Landing, CA 95039<br>PH: (831) 775-1700 |
| Engineer              |                  | 2. DIMENSION LIMITS HELD AFTER PLATING.                                                                   |                     |                      | ENGINEER                                      |                                                                                                                                    |
|                       |                  | 3. REMOVE BURRS AND SHARP EDGES .015 MAX.                                                                 |                     |                      | CHECKED                                       |                                                                                                                                    |
|                       |                  | 4. MACHINED FILLET RADII .0150-.030.                                                                      |                     |                      | PROJECT NO.                                   | 901217                                                                                                                             |
| NEXT ASSY Description | NEXT ASSY Number | 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005                                       |                     |                      | PROJECT                                       | Chem Sensors                                                                                                                       |
|                       |                  | 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE. |                     |                      |                                               |                                                                                                                                    |
| Application           |                  | DO NOT SCALE DRAWING                                                                                      |                     |                      | WEIGHT                                        |                                                                                                                                    |
|                       |                  | 3                                                                                                         |                     |                      | 2                                             |                                                                                                                                    |
|                       |                  |                                                                                                           |                     |                      | 1                                             |                                                                                                                                    |

Common DuraFET Ver 3

SIZE B DWG. NO. 306jahaCommonDF\_Ver3 REV.

SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 2 OF 2