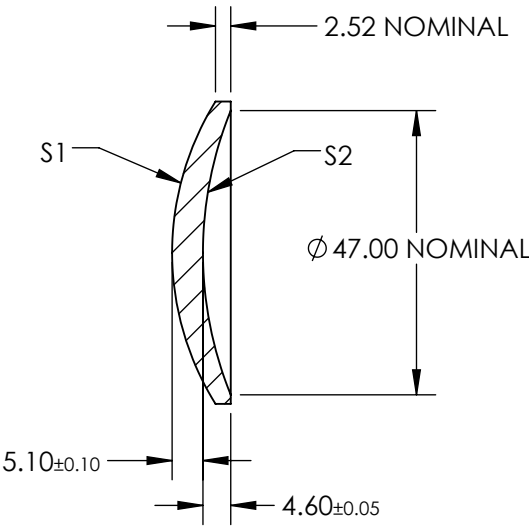
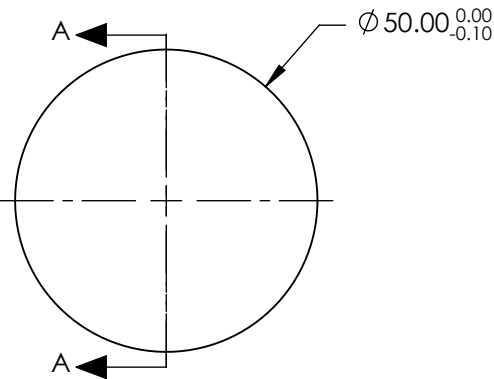


NOTES:

- 1. SUBSTRATE: GERMANIUM (GE)
- 2. COATING
  - S1: R{avg} <5.0% @ 3 - 12µm
  - S2: R{avg} <5.0% @ 3 - 12µm
- 3. EDGES: DIAMOND TURNED
- 4. CENTERING: 5-3 arcmin
- 5. RoHS: COMPLIANT
- 6. ASPHERIC SURFACE DESCRIBED BY THE FOLLOWING EQUATION AND COEFFICIENTS SHOWN IN TABLE BELOW

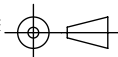
$$Z_{ASPH}(Y) = \frac{(\frac{1}{RADIUS}) * Y^2}{1 + \sqrt{1 - (1 + k) * (\frac{1}{RADIUS})^2 * Y^2}} + D * Y^2 + E * Y^4 + F * Y^6 + G * Y^8 + H * Y^{10} + J * Y^{12} + L * Y^{14}$$



SECTION A-A

| COEFFICIENT TABLE |               |
|-------------------|---------------|
| COEFFICIENT       | S1            |
| k                 | 0.000000E+00  |
| D                 | 0.000000E+00  |
| E                 | -9.298507E-08 |
| F                 | -3.145007E-11 |
| G                 | -3.117166E-14 |
| H                 | 0.000000E+00  |
| J                 | 0.000000E+00  |
| L                 | 0.000000E+00  |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

|                  | S1                   | S2                   |                                                                                       |                                                                                                             |                 |       |
|------------------|----------------------|----------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------|-------|
| SHAPE            | CONVEX               | CONCAVE              | EFL @ 4000nm: 50                                                                      |  <b>Edmund Optics®</b> |                 |       |
| RADIUS           | 46.880               | 62.380               | BFL @ 4000nm: 45.92                                                                   |                                                                                                             |                 |       |
| SURFACE ACCURACY | 0.3µm                | N/A                  |  | TITLE<br>50mm DIA X 50mm FL 3-12µm COATED, GE ASPHERIC LENS                                                 |                 |       |
| SURFACE QUALITY  | 60-40                | 60-40                |                                                                                       |                                                                                                             |                 |       |
| CLEAR APERTURE   | 90%                  | 90%                  |                                                                                       |                                                                                                             |                 |       |
| BEVEL            | PROTECTIVE AS NEEDED | PROTECTIVE AS NEEDED | ALL DIMS IN                                                                           | mm                                                                                                          | DWG NO          | 89616 |
|                  |                      |                      |                                                                                       |                                                                                                             | SHEET<br>1 OF 1 |       |