

NOTES:

1. SUBSTRATE: N-SF6

2. COATING (APPLY ACROSS CLEAR APERTURE)

S1 & S2: SWIR+ (900-1700nm)

R(AVG) <0.5% @ 900 - 1700nm @ ±30° AOI

R(ABS) <1% @ 900 - 1700nm @ ±30° AOI

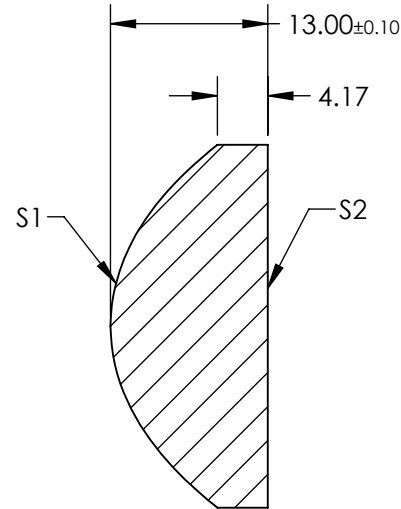
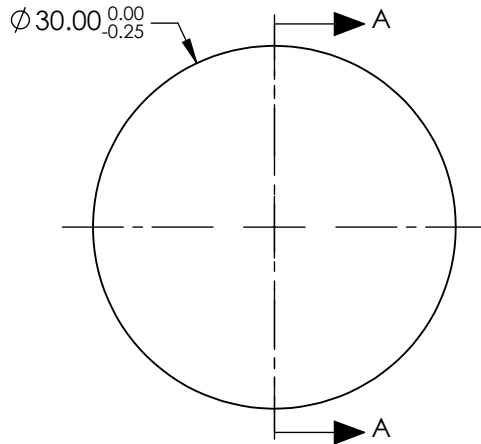
3. EDGES: FINE GROUND

4. CENTERING: <3 ARCMIN

5. ASPHERE FIGURE ERROR: 0.25µm RMS

6. ASPHERIC SURFACE DESCRIBED BY (REF. COEFFICIENT TABLE)

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

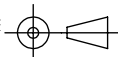


SECTION A-A

COEFFICIENT TABLE 6.

| COEFFICIENT   | S1             |
|---------------|----------------|
| SEMI-DIAMETER | 1.500000E+01   |
| (1/RADIUS)    | 0.070967284    |
| k             | -1.1731250     |
| D             | 0.0000000E+00  |
| E             | 2.7018881E-05  |
| F             | -5.4438834E-09 |
| G             | 6.0741654E-12  |
| H             | -3.5644152E-13 |
| J             | 6.4388602E-16  |
| L             | 0.0000000E+00  |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE DIMENSIONS ARE FOR REFERENCE ONLY

|                 |                      |                      |                                                                                                              |      |                                                                                                             |                                                                                            |              |
|-----------------|----------------------|----------------------|--------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------|
|                 | S1                   | S2                   | EFL @ 587.6nm                                                                                                | 17.5 |  <b>Edmund Optics®</b> | 30mm Dia., 0.86 Numerical Aperture, 900-1700nm Coated, Inked, High Precision Aspheric Lens |              |
| SHAPE           | CONVEX               | PLANO                | BFL @ 587.6nm                                                                                                | 10.3 |                                                                                                             |                                                                                            |              |
| RADIUS          | 14.091               | INFINITY             | THIRD ANGLE PROJECTION  |      | TITLE                                                                                                       |                                                                                            |              |
| SURFACE QUALITY | 40-20                | 40-20                |                                                                                                              |      |                                                                                                             |                                                                                            |              |
| CLEAR APERTURE  | Ø27                  | Ø27                  |                                                                                                              |      | DWG NO                                                                                                      | 17005INK                                                                                   | SHEET 1 OF 1 |
| BEVEL MAX       | PROTECTIVE AS NEEDED | PROTECTIVE AS NEEDED | ALL DIMS IN mm                                                                                               |      |                                                                                                             |                                                                                            |              |

**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**