

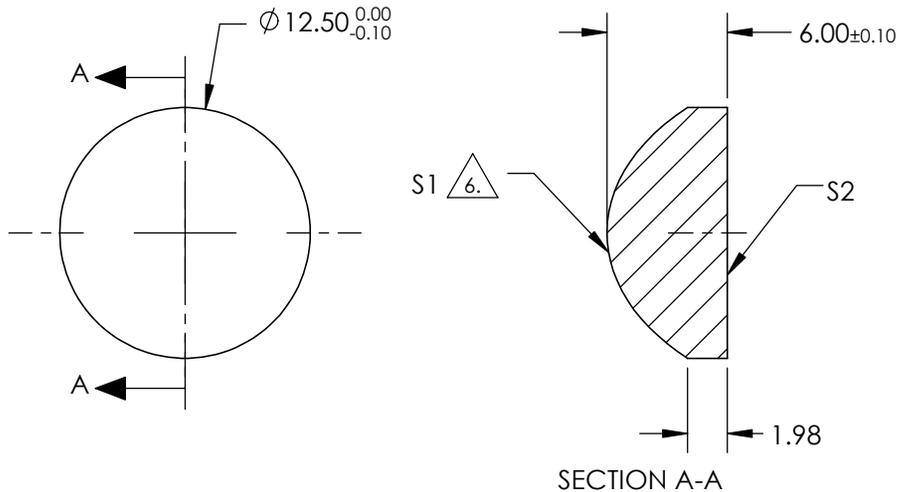
**NOTES:**

1. SUBSTRATE: FUSED SILICA
2. COATING (APPLY ACROSS CLEAR APERTURE)  
 S1: R(avg) <2.5% @ 250 - 700nm  
 S2: R(avg) <2.5% @ 250 - 700nm
3. EDGES: FINE GROUND
4. CENTERING: <3-5 ARCMIN
5. ASPHERE FIGURE ERROR: 0.75µm RMS

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

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

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



| COEFFICIENT TABLE |                |
|-------------------|----------------|
| COEFFICIENT       | S1             |
| k                 | -0.6549125     |
| D                 | 0              |
| E                 | 7.4010372e-005 |
| F                 | 5.564215e-007  |
| G                 | 6.8648873e-009 |
| H                 | 0              |
| J                 | 0              |
| L                 | 0              |

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE DIMENSIONS ARE FOR REFERENCE ONLY**

| REV. A          | S1                   | S2                   | EFL @ 587.6nm | 12.5 | <b>Edmund Optics®</b> |   |              |
|-----------------|----------------------|----------------------|---------------|------|-----------------------|---|--------------|
| SHAPE           | CONVEX               | PLANO                | BFL @ 587.6nm | 8.39 |                       |   |              |
| RADIUS          | 5.731                | INFINITY             |               |      | TITLE                 | 12.5mm DIA 0.50 NA UV-VIS COATED, UV FUSED SILICA ASPHERIC LENS |              |
| SURFACE QUALITY | 60-40                | 60-40                | ALL DIMS IN   | mm   | DWG NO                | 87984   |              |
| CLEAR APERTURE  | 90%                  | 90%                  |               |      |                       |   | SHEET 1 OF 1 |
| BEVEL MAX       | PROTECTIVE AS NEEDED | PROTECTIVE AS NEEDED |               |      |                       |   |              |