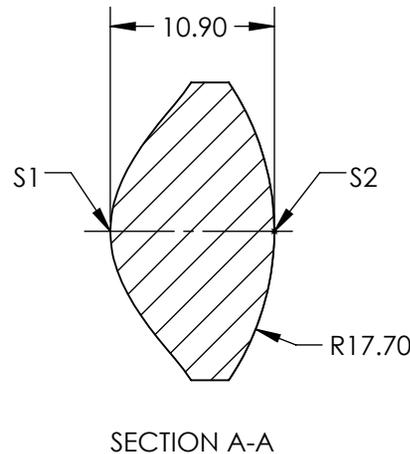
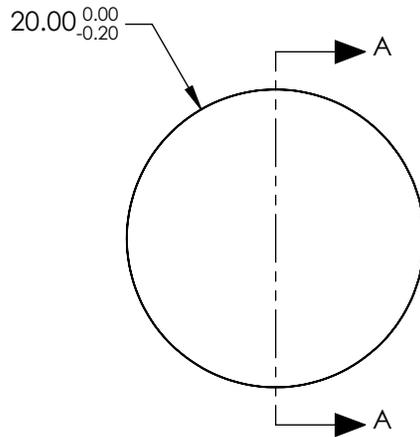


NOTES:

1. SUBSTRATE: LIBA2000+
2. COATING:  
S1 & S2: R(AVG) ≤ 1.75% @ 400 - 700
3. FOCAL LENGTH TOLERANCE: ±7%
4. CENTERING: 30 ARCMIN
5. RoHS: COMPLIANT
6. ASPHERIC SURFACE DESCRIBED BY THE FOLLOWING EQUATION AND COEFFICIENTS SHOWN IN TABLE BELOW

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

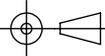
FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING



| COEFFICIENT TABLE |               |
|-------------------|---------------|
| COEFFICIENT       | S1            |
| SEMI-DIAMETER     | 10.000000E+00 |
| (1/RADIUS)        | 0.146826E+00  |
| k                 | -3.014000E+00 |
| D                 | 0.000000E+00  |
| E                 | 3.000000E-04  |
| F                 | -1.970000E-06 |
| G                 | 0.000000E+00  |
| 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               | CONVEX               |
| SURFACE QUALITY | As Molded            | As Molded            |
| CLEAR APERTURE  | Ø16.00               | Ø16.00               |
| BEVEL           | PROTECTIVE AS NEEDED | PROTECTIVE AS NEEDED |

|  |    |   |  |
|--|----|---|--|
| EFL: 11mm  |    |  <b>Edmund Optics®</b> |  |
| BFL: 4.86mm  |    |   |  |
| THIRD ANGLE PROJECTION  |    | TITLE   | 20mm DIA. X 11mm FL, MgF2 MOLDED ASPHERIC CONDENSER LENS |
| ALL DIMS IN  | mm | DWG NO  | 35052  |
|  |    |   | SHEET 1 OF 1   |