ASPHERIC COEFFICIENTS

	R	k	A_2	A_4	A_6	A_8	A_{10}
S1	-107.51	-	-	-	-	-	-
S2	-7.47	-	-	1.5941000E-04	2.4510000E-06	2.5470000E-08	-

ASPHERIC LENS EQUATION

$$z = \frac{Y^2}{R(1 + \sqrt{1 - (1+k)Y^2/R^2})} + A_2Y^2 + A_4Y^4 + A_6Y^6 + A_8Y^8 + A_{10}Y^{10}$$

ISOMETRIC VIEW
1 : 1

A

Ø7.20mm
[0.28in]

A

1.36mm
[0.05in]
REF

S1

S2

6.59mm
[0.26in]
CLEAR APERTURE

9.64mm
[0.38in]

2.20mm
[0.09in]
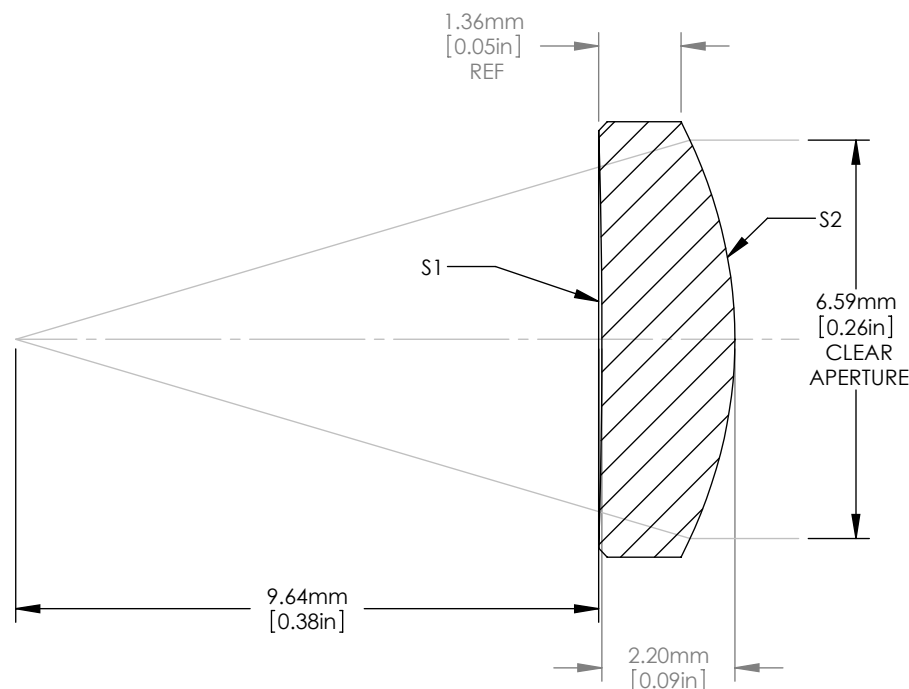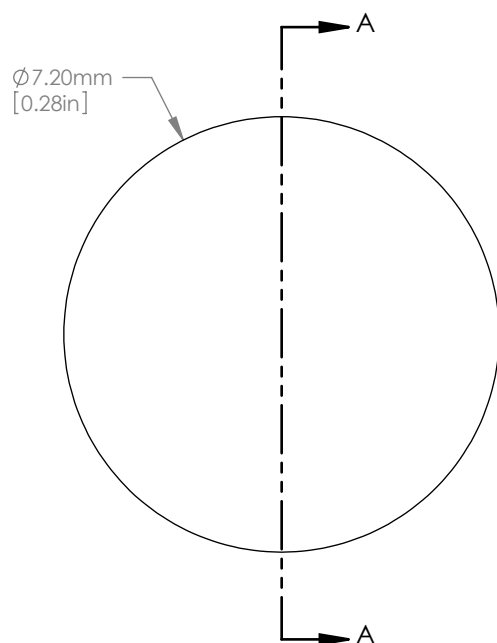
SECTION A-A
SCALE 8 : 1

NOTES/SPECIFICATIONS:

1. DESIGN WAVELENGTH: 670nm
2. EFFECTIVE FOCAL LENGTH: 11.00mm
3. EFL TOLERANCE: ±1%
4. NUMERICAL APERTURE: 0.30
5. WORKING DISTANCE: 9.64mm
6. DIAMETER TOLERANCE: ±0.015mm
7. CENTER THICKNESS TOLERANCE: ±0.04mm
8. LASER WINDOW THICKNESS: 0.275mm (N-BK7)
9. SURFACE QUALITY: 60-40 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
10. RMS WFE(TYPICAL): 0.052 WAVES
11. MAGNIFICATION: INFINITE
12. REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.724
13. COATING(S1&S2): BBAR Ravg<0.5% FROM 1050-1620nm

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION			THORLABS www.thorlabs.com
	NAME	DATE	-C COATED ASPHERIC COLLIMATING LENS EFL=11.00mm
DRAWN	SES	13/DEC/10	
APPROVAL	DD	02/APR/11	MATERIAL
COPYRIGHT © 2010 BY THORLABS			H-LAK54
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS			ITEM # A397-C

REV
E

MATERIAL
H-LAK54

APPROX WEIGHT
0.1g