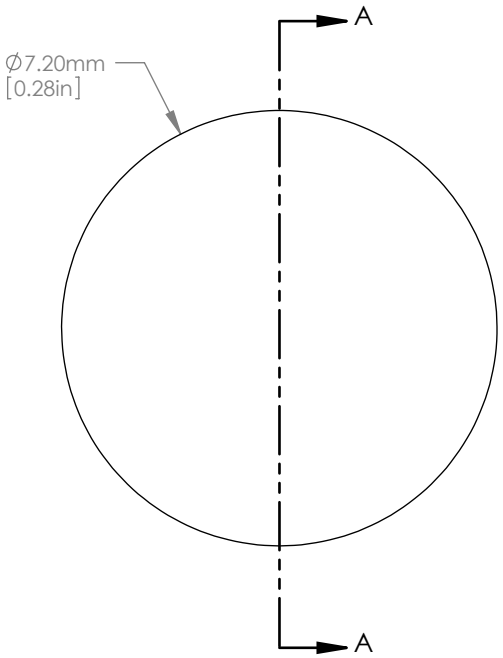
ASPHERIC COEFFICIENTS

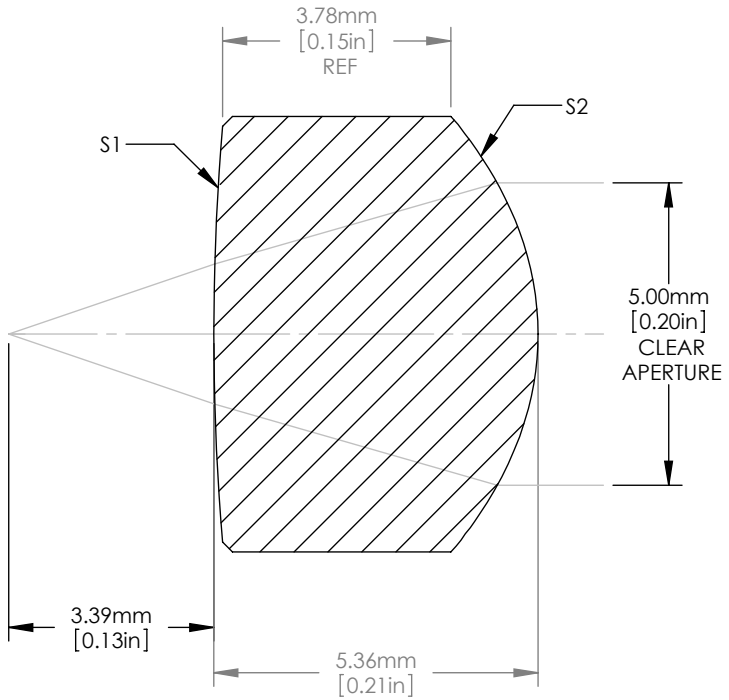
	R	k	A_2	A_4	A_6	A_8	A_{10}
S1	41.07	-	-	-	-	-	-
S2	-4.76	-1.256813	-	-7.7454042E-04	1.9209200E-06	1.7823124E-07	-

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

ASPHERIC LENS EQUATION

ISOMETRIC VIEW
1 : 1





SECTION A-A
SCALE 8 : 1

NOTES/SPECIFICATIONS:

1. DESIGN WAVELENGTH: 780nm
2. EFFECTIVE FOCAL LENGTH: 6.24mm
3. EFL TOLERANCE: ±1%
4. NUMERICAL APERTURE: 0.40
5. WORKING DISTANCE: 3.39mm
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): 0.043 WAVES
11. MAGNIFICATION: INFINITE
12. REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.719
13. COATING(S1&S2): BBAR Ravg<0.5% FROM 350-700nm

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION		
	NAME	DATE
DRAWN	SES	13/DEC/10
APPROVAL	PM	25/MAR/13

VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

THORLABS
www.thorlabs.com

-A COATED ASPHERIC COLLIMATING LENS EFL=6.24mm

MATERIAL	REV
H-LAK54	E

ITEM #	APPROX WEIGHT
A110-A	0.1g