ASPHERIC COEFFICIENTS

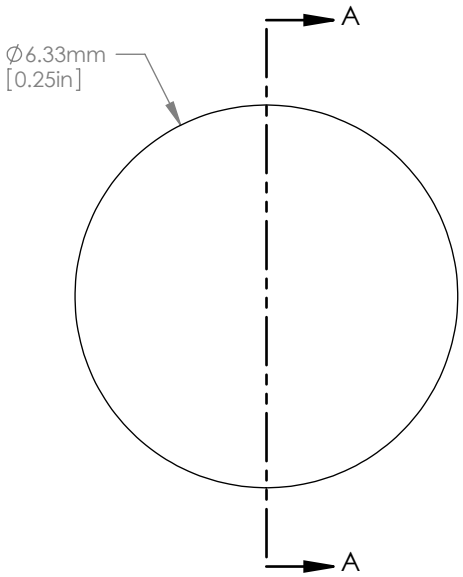
	R	k	A_2	A_4	A_6	A_8	A_{10}
S1	-	-	-	-	-	-	-
S2	-3.48	-0.1263039	-	1.2606314E-03	1.0900023E-04	-3.2255631E-07	7.8343862E-07

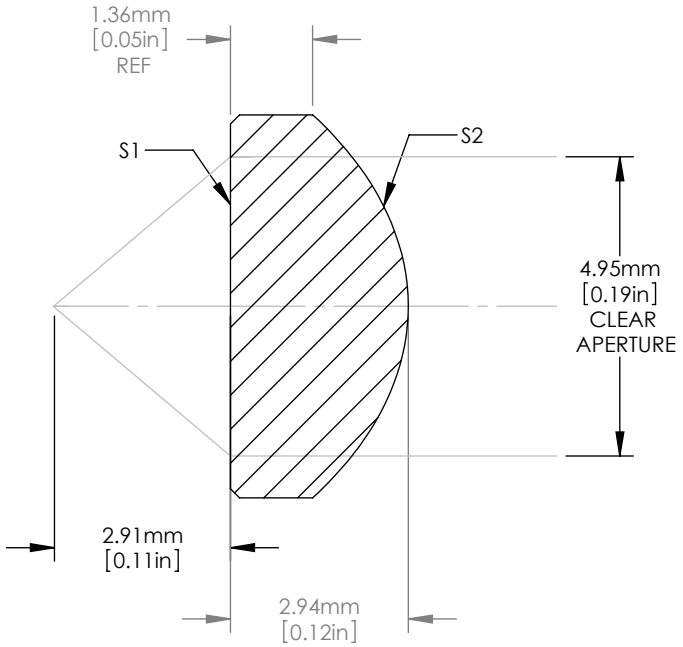
$$z = \frac{Y^2}{R(1+\sqrt{1-(1+k)Y^2/R^2})} + A_2Y^2 + A_4Y^4 + A_6Y^6 + A_8Y^8 + A_{10}Y^{10}$$

ASPHERIC LENS EQUATION



ISOMETRIC VIEW
SCALE 1 : 1





SECTION A-A
SCALE 8 : 1

NOTES/SPECIFICATIONS:

1. DESIGN WAVELENGTH: 780nm
2. EFFECTIVE FOCAL LENGTH: 4.51mm
3. EFL TOLERANCE: ±1%
4. NUMERICAL APERTURE: 0.55
5. WORKING DISTANCE: 2.91mm
6. DIAMETER TOLERANCE: ±0.015mm
7. CENTER THICKNESS TOLERANCE: ±0.04mm
8. LASER WINDOW THICKNESS: 0.25mm (N-BK7)
9. SURFACE QUALITY: 60-40 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
10. RMS WFE(TYPICAL): 0.050 WAVES
11. MAGNIFICATION: INFINITE
12. REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.776
13. COATING(S1&S2): BBAR Ravg<0.5% FROM 350-700nm

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION		
	NAME	DATE
DRAWN	JR	02/MAY/11
APPROVAL	PM	08/MAY/11

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VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

THORLABS
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-A COATED ASPHERIC COLLIMATING LENS EFL=4.51mm

MATERIAL	REV
S-NPH1	G

ITEM #	APPROX WEIGHT
A230-A	0.1g