ASPHERIC COEFFICIENTS

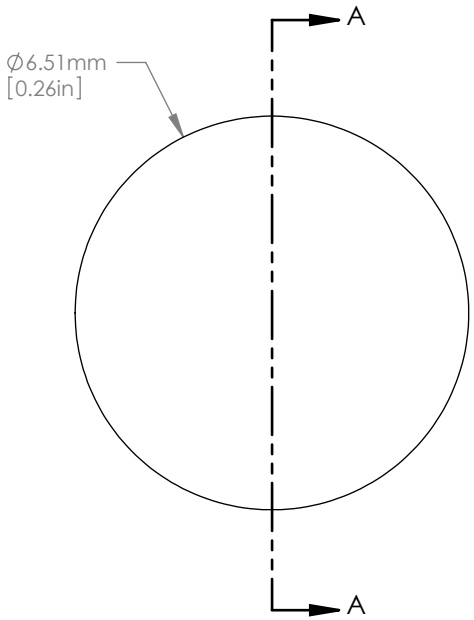
	R	k	A_2	A_4	A_6	A_8	A_{10}
S1	-94.7	-	-	-	-	-	-
S2	-5.15	-	-	5.0699570E-04	1.0136510E-05	8.5232730E-07	-

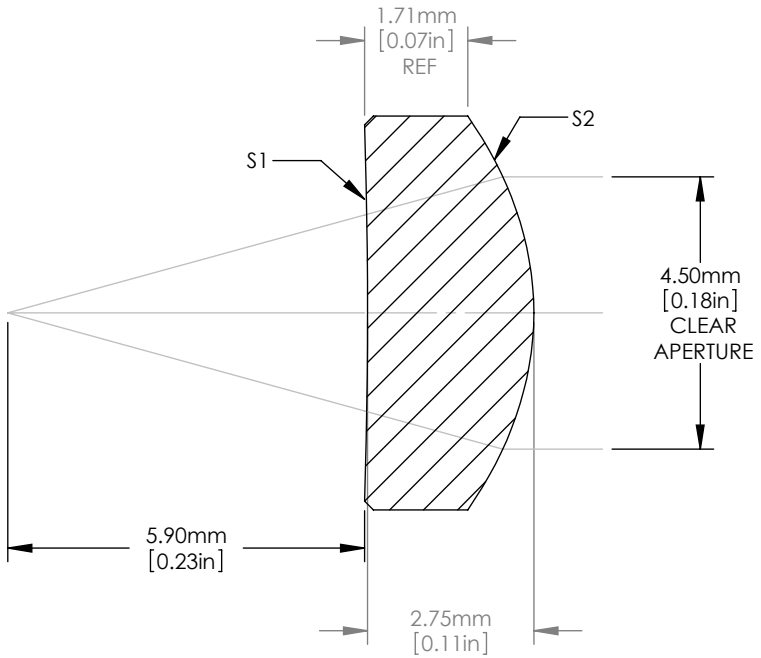
$$z = \frac{Y^2}{R(1+\sqrt{1-(1+k)Y^2/R^2})} + A_2Y^2 + A_4Y^4 + A_6Y^6 + A_8Y^8 + A_{10}Y^{10}$$

ASPHERIC LENS EQUATION



ISOMETRIC VIEW
SCALE 1 : 1





SECTION A-A
SCALE 8 : 1

NOTES/SPECIFICATIONS:

1. DESIGN WAVELENGTH: 810nm
2. EFFECTIVE FOCAL LENGTH: 7.50mm
3. EFL TOLERANCE: ±1%
4. NUMERICAL APERTURE: 0.30
5. WORKING DISTANCE: 5.90mm
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): 0.028 WAVES
11. MAGNIFICATION: INFINITE
12. REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.718
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	DD	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=7.50mm

MATERIAL	REV
H-LAK54	G

ITEM #	APPROX WEIGHT
A375-A	0.1g