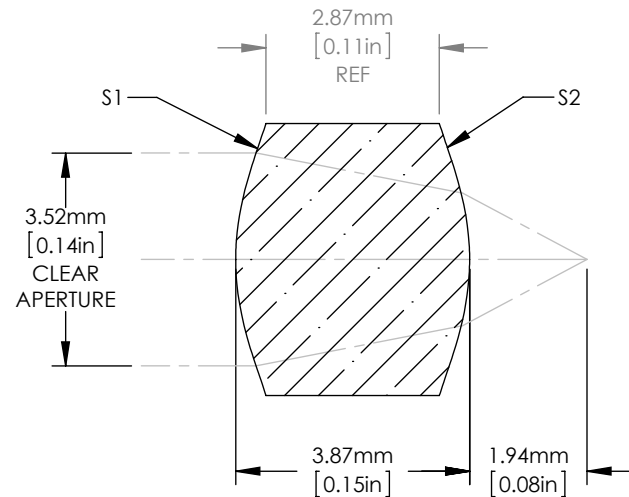
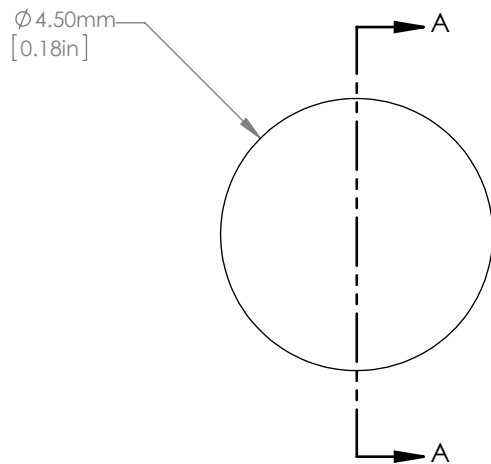


ASPHERIC COEFFICIENTS

	R	k	A <sub>2</sub>	A <sub>4</sub>	A <sub>6</sub>	A <sub>8</sub>	A <sub>10</sub>	A <sub>12</sub>	A <sub>14</sub>	A <sub>16</sub>
S1	4.163836	0.3653929	-	-4.9880401E-03	-4.3603209E-04	-1.5458185E-05	4.1463437E-06	-1.0317168E-07	3.7264265E-07	-5.6471019E-08
S2	-4.163836	0.3653929	-	4.9880401E-03	4.3603209E-04	1.5458185E-05	-4.1463437E-06	1.0317168E-07	-3.7264265E-07	5.6471019E-08

$$z = \frac{Y^2}{R(1 + \sqrt{1 - (1+k)Y^2/R^2})} + A_2Y^2 + A_4Y^4 + A_6Y^6 + A_8Y^8 + A_{10}Y^{10} + A_{12}Y^{12} + A_{14}Y^{14} + A_{16}Y^{16}$$

ASPHERIC LENS EQUATION



SECTION A-A  
SCALE 8 : 1

NOTES/SPECIFICATIONS:

- DESIGN WAVELENGTH: 670nm
- EFFECTIVE FOCAL LENGTH: 3.30mm ±1%
- NUMERICAL APERTURE: 0.47
- WORKING DISTANCE: 1.94mm
- DIAMETER TOLERANCE: +0.00/-0.04mm
- CENTER THICKNESS TOLERANCE: ±0.015mm
- LASER WINDOW THICKNESS: 0.25mm (N-BK7)
- SURFACE QUALITY: 60-40 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
- RMS WFE(TYPICAL): 0.18 WAVES
- MAGNIFICATION: INFINITE
- REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.794
- COATING(S1&S2): BBAR Ravg<0.5% FROM 350-700nm

FOR INFORMATION ONLY  
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION				 www.thorlabs.com	
NAME	DATE	A COATED ASPHERIC COLLIMATING LENS EFL=3.30mm		MATERIAL	
DRAWN CS	27/MAR/13			H-ZLAF52	
APPROVAL DD	04/APR/13			REV A	
COPYRIGHT © 2013 BY THORLABS				ITEM #	
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS				N414-A	
				APPROX WEIGHT	
				0.1g	