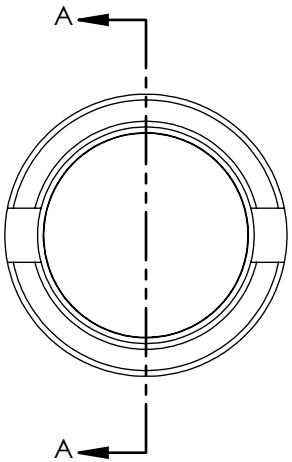
ASPHERIC COEFFICIENTS

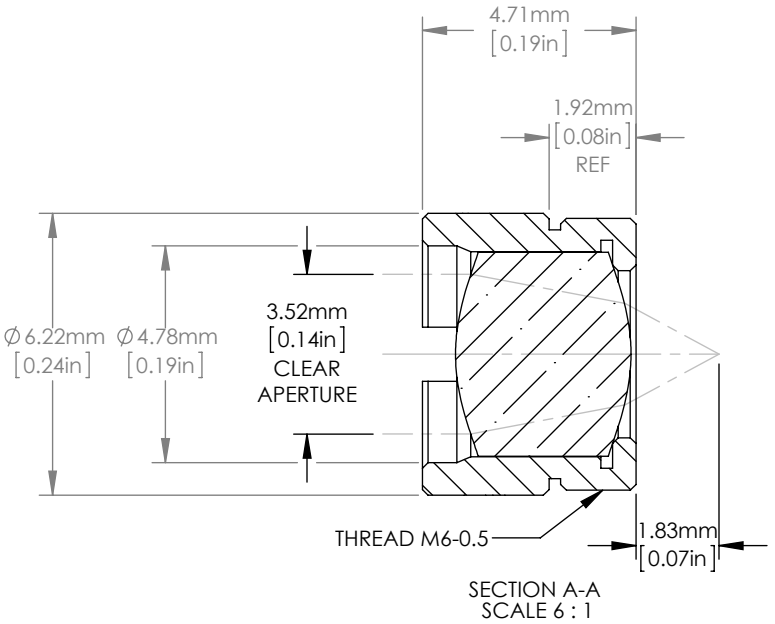
	R	k	A_2	A_4	A_6	A_8	A_{10}	A_{12}	A_{14}	A_{16}
S1	4.163836	0.3653929	-	-4.9880401E-03	-4.3603209E-04	-1.5458185E-05	4.1463437E-06	-1.0317168E-07	3.7264265E-07	-5.6471019E-08
S2	-4.163836	0.3653929	-	4.9880401E-03	4.3603209E-04	1.5458185E-05	-4.1463437E-06	1.0317168E-07	-3.7264265E-07	5.6471019E-08

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

ASPHERIC LENS EQUATION







SECTION A-A
SCALE 6 : 1

NOTES/SPECIFICATIONS:

1. DESIGN WAVELENGTH: 670nm
2. EFFECTIVE FOCAL LENGTH: 3.30mm ±1%
3. NUMERICAL APERTURE: 0.47
4. WORKING DISTANCE (LENS): 1.94mm
5. WORKING DISTANCE (MOUNT): 1.83mm
6. DIAMETER TOLERANCE: +0.00mm/-0.02mm(HOUSING)
7. CENTER THICKNESS TOLERANCE: ±0.015mm(LENS)
8. LASER WINDOW THICKNESS: 0.25mm (N-BK7)
9. SURFACE QUALITY: 60-40 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
10. RMS WFE(TYPICAL): 0.18 WAVES
11. MAGNIFICATION: INFINITE
12. REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.794
13. COATING(S1&S2): BBAR Ravg<0.5% FROM 350-700nm

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION		
	NAME	DATE
DRAWN	CS	27/MAR/13
APPROVAL	DD	04/APR/13

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VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

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MOUNTED -A COATED ASPHERIC COLLIMATING LENS EFL=3.30mm

MATERIAL	REV
H-ZLAF52	A

ITEM #	APPROX WEIGHT
N414TM-A	0.2g