

ASPHERIC COEFFICIENTS

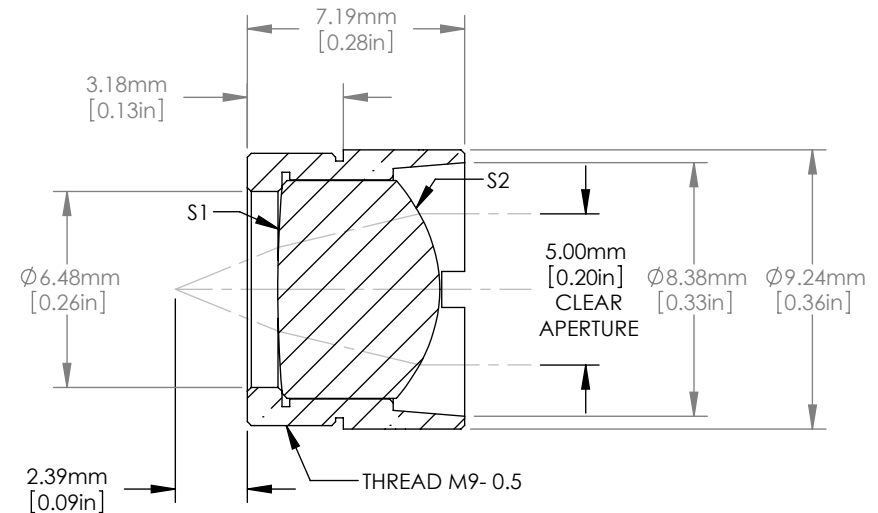
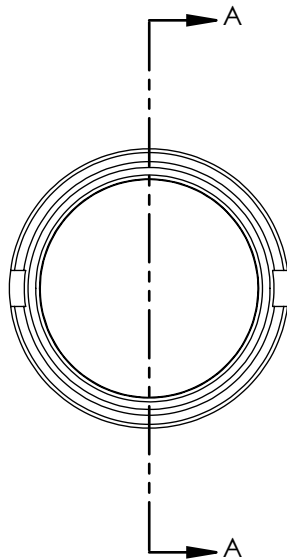
	R	k	A <sub>2</sub>	A <sub>4</sub>	A <sub>6</sub>	A <sub>8</sub>	A <sub>10</sub>
S1	41.07	-	-	-	-	-	-
S2	-4.76	-1.256813	-	-7.7454042E-04	1.9209200E-06	1.7823124E-07	-

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

ASPHERIC LENS EQUATION



ISOMETRIC VIEW  
1 : 1



SECTION A-A  
SCALE 4 : 1

NOTES/SPECIFICATIONS:

- DESIGN WAVELENGTH: 780nm
- EFFECTIVE FOCAL LENGTH: 6.24mm
- EFL TOLERANCE: ±1%
- NUMERICAL APERTURE: 0.40
- WORKING DISTANCE: 2.39mm
- DIAMETER TOLERANCE: +0.00mm/-0.02mm(HOUSING)
- CENTER THICKNESS TOLERANCE: ±0.04mm(LENS)
- LASER WINDOW THICKNESS: 0.275mm (N-BK7)
- SURFACE QUALITY: 60-40 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
- RMS WFE(TYPICAL): 0.043 WAVES
- MAGNIFICATION: INFINITE
- REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.719
- COATING(S1&S2): BBAR Ravg<0.5% FROM 650-1050nm

FOR INFORMATION ONLY  
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION			 www.thorlabs.com MOUNTED -B COATED ASPHERIC COLLIMATING LENS EFL=6.24mm	
NAME	DATE			
DRAWN	JAC	10/JAN/19	MATERIAL	
APPROVAL	DD	10/JAN/19		
COPYRIGHT © 2019 BY THORLABS			H-LAK54	
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS			ITEM #	APPROX WEIGHT
			A110TM-B	0.2g
			REV	G