

ASPHERIC COEFFICIENTS

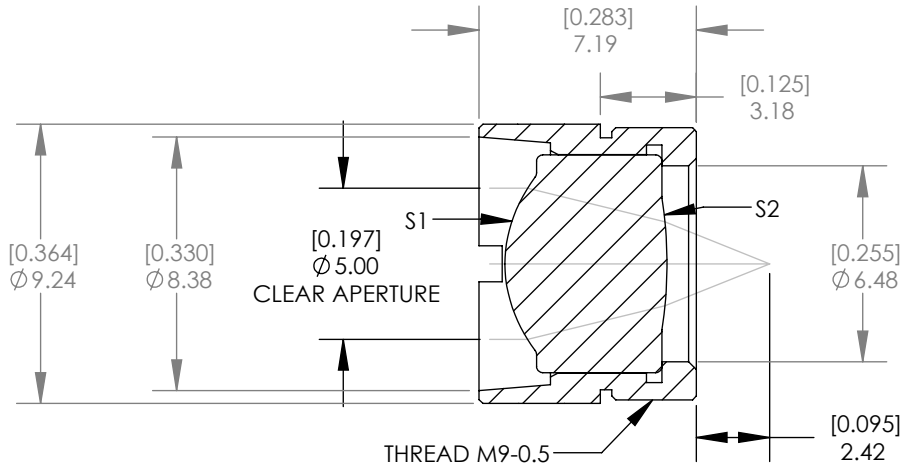
	R	k	A ₂	A ₄	A ₆	A ₈	A ₁₀
S1	4.33	-0.8468796	-	5.2151203E-04	-6.8766229E-06	-	-
S2	-14.45	-105.2321	-	-1.0593674E-03	7.6925867E-05	-	-

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

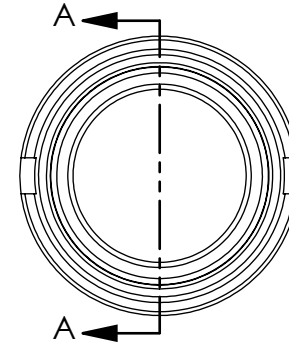
ASPHERIC LENS EQUATION



ISOMETRIC VIEW



SECTION A-A
SCALE 4 : 1



SPECIFICATIONS:

- DESIGN WAVELENGTH: 780nm
- EFFECTIVE FOCAL LENGTH: 6.24mm
- EFL TOLERANCE: ±1%
- NUMERICAL APERTURE: 0.40
- WORKING DISTANCE (LENS): 3.39mm
- WORKING DISTANCE (MOUNT): 2.42mm
- DIAMETER TOLERANCE: ±0.015mm
- CENTER THICKNESS TOLERANCE: ±0.04mm
- SURFACE QUALITY: 40-20 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
- RMS WFE: ≤ DIFFRACTION LIMITED
- MAGNIFICATION: INFINITE
- REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.597
- INDEX TOLERANCE: ±0.002
- COATING(S1&S2): BBAR Ravg<0.5% FROM 600-1050nm

[in]
ALL DIMENSIONS ARE IN mm
THIS DRAWING IS FOR INFORMATION ONLY
NOT INTENDED FOR MANUFACTURING

THORLABS INC. PO BOX 366
NEWTON NJ

TITLE: MOUNTED -B COATED ASPHERIC
COLLIMATING LENS EFL=6.24mm

MATERIAL: ECO-550 SIZE A REV. E

SCALE: 4:1 SHEET 1 OF 1

DWG. NO. 13719-E01 PART NO. C110TME-B

	NAME	DATE
DRAWN	SFG	12/2/2009
ENG APPR.	DJ	12/05/2009
MFG APPR.	DD	12/17/2009

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THORLABS, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THORLABS, INC. IS PROHIBITED.