

ASPHERIC COEFFICIENTS

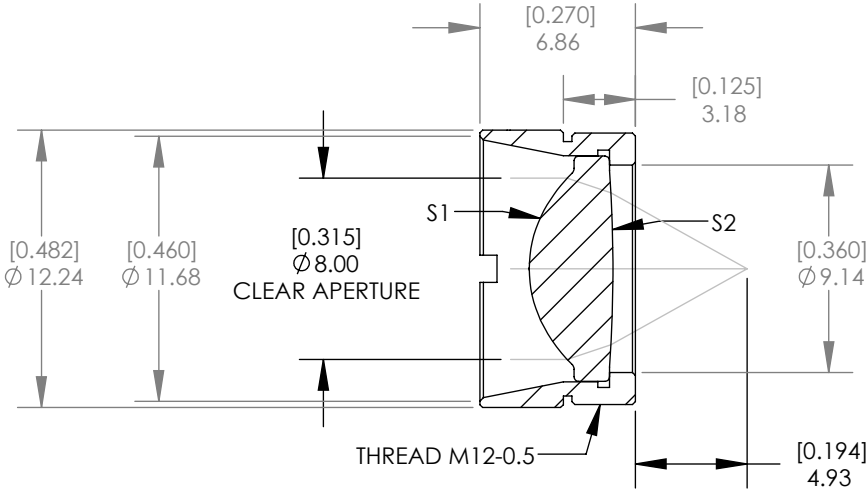
	R	k	A ₂	A ₄	A ₆	A ₈	A ₁₀
S1	5.07	-0.4755395	-	-	-4.2737234E-06	2.9311207E-07	-1.3379192E-08
S2	-61.17	-	-	4.2977700E-04	-1.0625227E-05	-	-

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

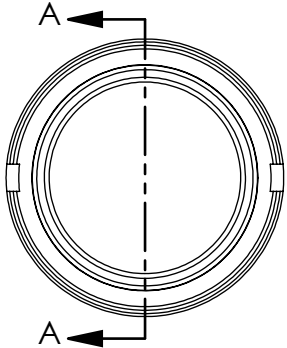
ASPHERIC LENS
EQUATION



ISOMETRIC VIEW



SECTION A-A
SCALE 3 : 1



SPECIFICATIONS:

DESIGN WAVELENGTH: 780nm
EFFECTIVE FOCAL LENGTH: 8.00mm
EFL TOLERANCE: ±1%
NUMERICAL APERTURE: 0.50
WORKING DISTANCE (LENS): 5.92mm
WORKING DISTANCE (MOUNT): 4.93mm
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 400-600nm

[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 -A COATED ASPHERIC
COLLIMATING LENS EFL=8.00mm

MATERIAL: ECO-550 SIZE A REV. C

SCALE: 3:1 SHEET 1 OF 1

DWG. NO. 13706-E01 PART NO. C240TME-A

	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.