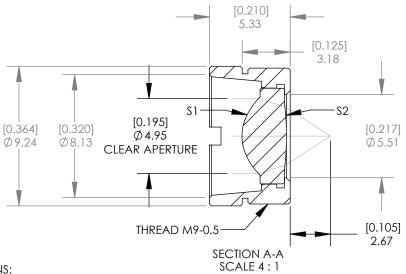
ASPHERIC COEFFICIENTS

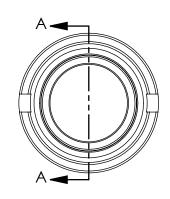
	R	k	A_2	A ₄	A ₆	A ₈	A ₁₀
\$1	2.96	-0.3552361	-	-1.3285109E-03	-1.3974549E-04	-3.7686018E-06	-1.0129690E-06
\$2	-18.73	=	-	-	-	=	-

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



ISOMETRIC VIEW





SPECIFICATIONS:

DESIGN WAVELENGTH: 780nm EFFECTIVE FOCAL LENGTH: 4.51mm EFL TOLERANCE: ±1%

NUMERICAL APERTURE: 0.55

WORKING DISTANCE (LENS): 2.92mm WORKING DISTANCE (MOUNT): 2.67mm 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(\$1&\$2): VAR R<0.25% FOR 1064nm

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

THORLABS	INC.	PO BOX 366
INOKLADS		NEWTON NJ

TITLE: MOUNTED -1064 COATED ASPHERIC 12/1/2009 COLLIMATING LENS EFL=4.51mm 12/05/2009

12/17/2009 MATERIAL: SIZE REV. PROPRIETARY AND CONFIDENTIAL ECO-550 Α THE INFORMATION CONTAINED IN THIS SCALE: 4:1 SHEET 1 OF 1 DRAWING IS THE SOLE PROPERTY OF THORLABS, INC. ANY REPRODUCTION

DWG. NO. PART NO. C230TME-1064 19768-F01

2

NAME

DRAWN

ENG APPR.

MFG APPR.

3

SFG

DJ

DD

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DATE