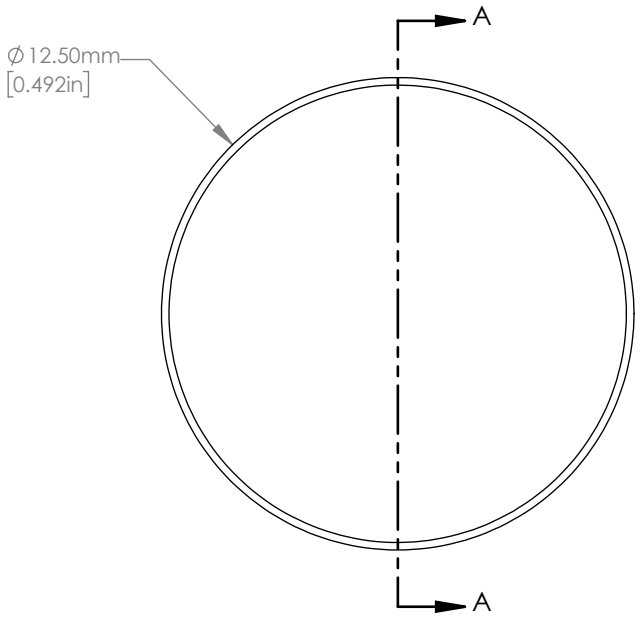
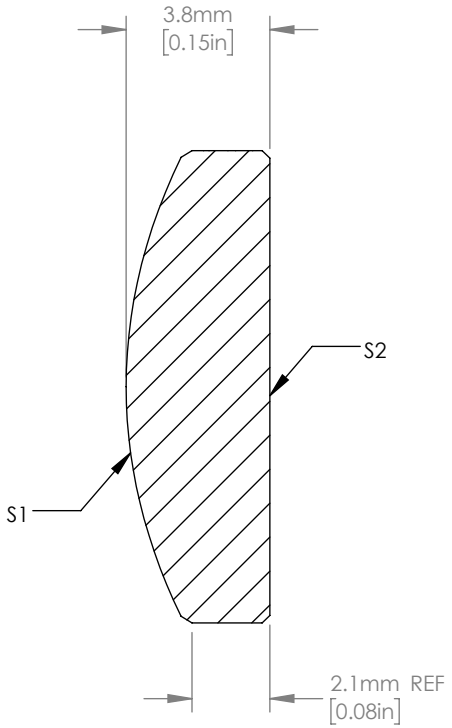
ASPHERIC COEFFICIENTS

	R	k	A_4	A_6	A_8	A_{10}	A_{12}	A_{14}	A_{16}
S1	12.9868	-1.00902	2.50090e-05	2.28327e-08	1.77427e-11	-	-	-	-
S2	PLANO	-	-	-	-	-	-	-	-

ASPHERIC LENS EQUATION

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





SECTION A-A

NOTES/SPECIFICATIONS:

1. CLEAR APERTURE (COLLIMATION): ∅10.6 mm
2. CLEAR APERTURE (FOCUSING): ∅9.8 mm
3. Nd: 1.517 ±0.001 Vd: 64.167±1.0%
4. DESIGN WAVELENGTH: 532 nm
5. FOCAL LENGTH: EFL= 25.0 mm ±1.0%
6. NUMERICAL APERTURE: 0.20
7. WORKING DISTANCE (REF): 22.5 mm
8. DIAMETER TOLERANCE: +0.00/-0.05 mm
9. SURFACE QUALITY: 40-20 SCRATCH-DIG
10. WAVEFRONT ERROR: DIFFRACTION LIMITED AT DISCRETE WAVELENGTHS FROM 350-2000 nm
11. RMS IRREGULARITY (S1): <55 nm
12. SLOPE ERROR (PV): <200 µRADIANS
13. CENTRATION: <1 arcmin

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION		
	NAME	DATE
DRAWN	CA	11/MAY/18
APPROVAL	NE	21/JUN/18

COPYRIGHT © 2018 BY THORLABS

VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

THORLABS
www.thorlabs.com

∅12.5 mm ASPHERIC LENS, NA = 0.20
f = 25.0 mm, DW = 532 nm

MATERIAL	REV
N-BK7	A

ITEM #	APPROX WEIGHT
AL1225G	1 g