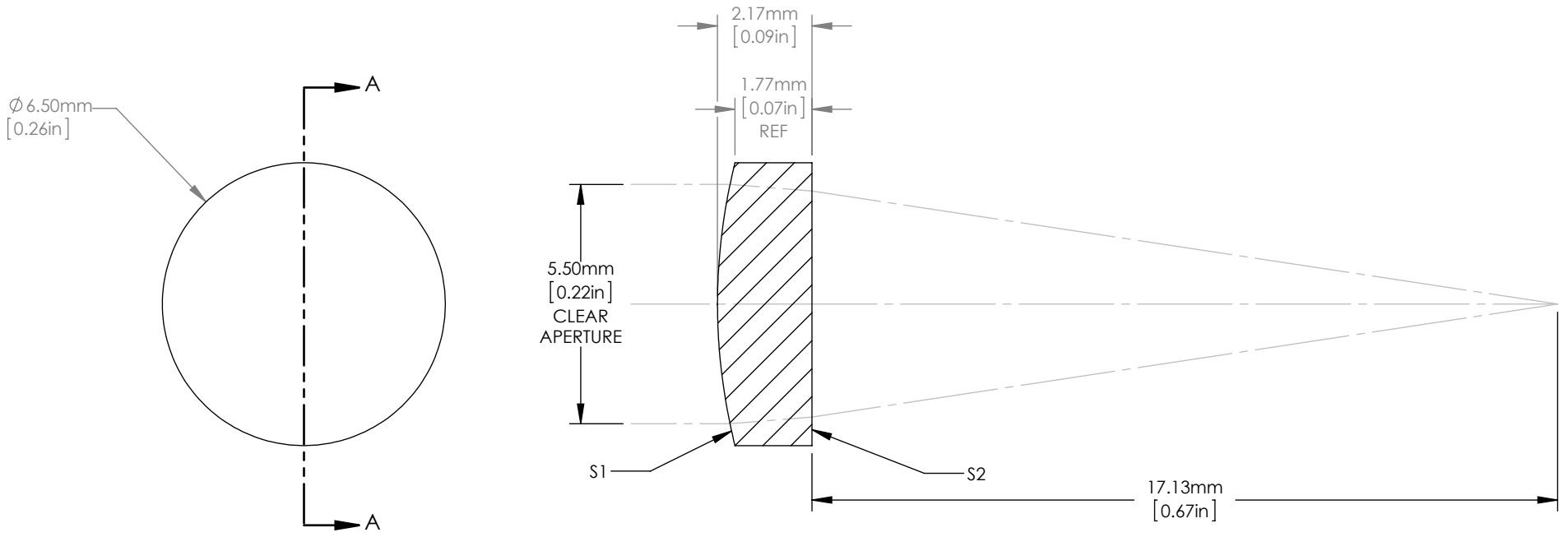
ASPHERIC COEFFICIENTS

	R	k	A_4	A_6	A_8	A_{10}	A_{12}
S1	13.2245	-0.1550451	0.0001178858	-4.6027852E-05	6.3269738E-06	-3.1567019E-07	-
S2	PLANO	-	-	-	-	-	-

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

ASPHERIC LENS EQUATION



SECTION A-A

NOTES/SPECIFICATIONS:

1. DESIGN WAVELENGTH: 780nm
2. EFFECTIVE FOCAL LENGTH: 18.40mm ±1%
3. NUMERICAL APERTURE: 0.15
4. WORKING DISTANCE: 17.13 mm
5. DIAMETER TOLERANCE: ±0.015mm
6. CENTER THICKNESS TOLERANCE: ±0.04mm
7. LASER WINDOW THICKNESS: 0.25mm (N-BK7)
8. SURFACE QUALITY: 60-40 SCRATCH-DIG (INCLUDES ENTIRE BULK MATERIAL)
9. RMS WFE(TYPICAL): 0.030 WAVES
10. MAGNIFICATION: INFINITE
11. REFRACTIVE INDEX (AT DESIGN WAVELENGTH): 1.719
12. COATING(S1&S2): BBAR Ravg<0.5% FROM 350-700nm

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION		
	NAME	DATE
DRAWN	CS	21/MAR/13
APPROVAL	DD	28/MAR/13

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VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUNDOFF ERRORS

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-A ASPHERIC COLLIMATING LENS EFL=18.40mm

MATERIAL	REV
H-LAK54	A

ITEM #	APPROX WEIGHT
A280-A	0.1g