

1. ALLOWABLE OPTICAL MATERIAL: GRADE A FINE ANNEALED
ELEMENT A: SCHOTT: LaKN22 651/559
ELEMENT B: SCHOTT: SFL6 805/254
2. CENTERING TOLERANCE:
BEAM DEVIATION: 3-5 arc min.
3. COATING (APPLY ACROSS COATING APERTURE)
S1 & S4: NIR II [750-1550nm]
Rabs $\leq 1.5\%$ 750-800nm
Rabs $\leq 1.0\%$ 800-1550nm
Rave $\leq 0.7\%$ 750-1550nm
S2 & S3: NONE


5. FOCAL LENGTH TOLERANCE: $\pm 2\%$

Technical drawing of a cylindrical component with a central hole. The drawing includes the following dimensions and labels:

- Overall Diameter:** $\varnothing 12.00$ with a tolerance of $0.00 / -0.10$.
- Overall Length:** 5.58 (indicated in parentheses).
- Element A:** The left half of the component, labeled "ELEMENT A".
- Element B:** The right half of the component, labeled "ELEMENT B".
- Surface Labels:**
 - S1:** The left outer cylindrical surface.
 - S2 & S3:** The top and bottom outer cylindrical surfaces.
 - S4:** The right outer cylindrical surface.
- Feature 4:** A feature on the top surface, indicated by a triangle with the number 4.
- Feature 6:** A feature on the right outer cylindrical surface, indicated by a triangle with the number 6.
- Dimension Lines:**
 - A horizontal dimension line at the bottom indicates a distance of 4.50 ± 0.20 from the left face to the centerline.
 - A horizontal dimension line at the bottom indicates a distance of 2.50 ± 0.20 from the centerline to the right face.
 - A vertical dimension line on the right indicates the overall diameter.
 - A horizontal dimension line at the top indicates the overall length.

**FOR INFORMATION ONLY:
DO NOT MANUFACTURE PARTS TO THIS DRAWING**

		ELEMENT A		ELEMENT B			
		S1	S2	S3	S4		
SHAPE		CONVEX	CONVEX	CONCAVE	CONVEX	EFL (AT 587.6nm)	25.00
RADIUS		15.56	-13.75	-13.75	-84.13		
SURFACE QUALITY		40-20	40-20	40-20	40-20		
CLEAR APERTURE		11.00	11.00	11.00	11.00	BFL (AT 587.6nm)	21.05
BEVEL MAX FACE		0.25mm x 45°	0.25mm x 45°	0.25mm x 45°	0.25mm x 45°	ALL DIMS IN	mm


Edmund Optics®

TITLE	LENS NEAR INFRARED ACHROMAT 12MM DIA X 25MM FL NIR II
DWG NO	45793