

NOTES:

1. SUBSTRATE: GRADE A FINE ANNEALED  
SCHOTT: N-BK7 517/642
2. ROHS COMPLIANT
3. SURFACE S2 TO BE PARALLEL TO SURFACE S1 TO WITHIN 3 ARCMIN
4. COATING (APPLY ACROSS COATING APERTURE)  
SPECIFICATIONS AT 45° AOI AND RANDOM POLARIZATION  
S1:  
 $R(\text{abs}) = 50\% \pm 5\% @ 550\text{nm}$   
 $R(\text{abs}) = 50\% \pm 10\% \text{ FROM } 400\text{-}700\text{nm}$   
 $T(\text{abs}) = 50\% \pm 5\% @ 550\text{nm}$   
 $T(\text{abs}) = 50\% \pm 10\% \text{ FROM } 400\text{-}700\text{nm}$   
 VISUAL COLOR = NEUTRAL

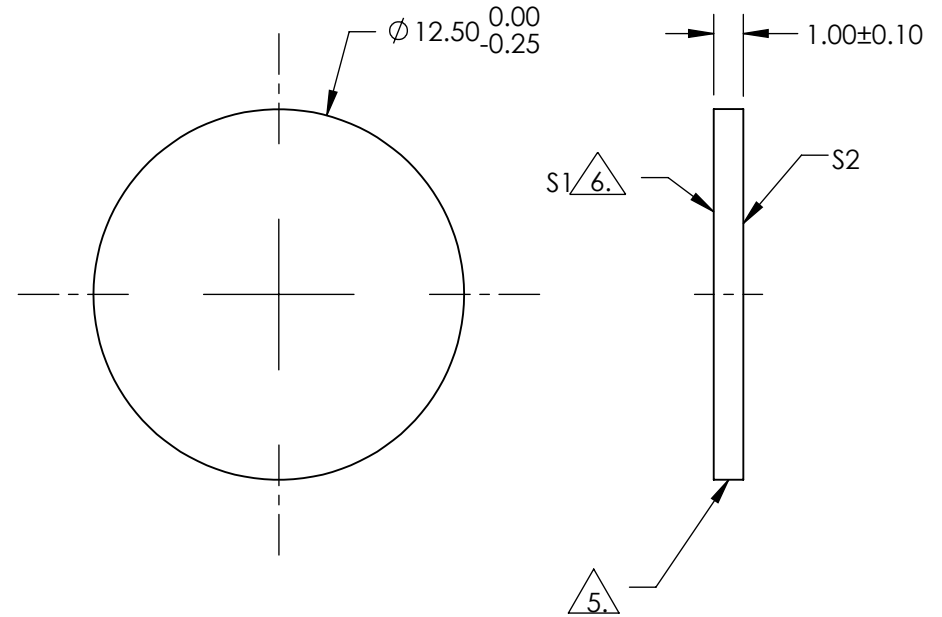
S2: BBAR  
 $R(\text{abs}) \leq 2.0\% \text{ FROM } 400\text{-}700\text{nm}$   
 $R(\text{avg}) \leq 1.0\% \text{ FROM } 400\text{-}700\text{nm}$



FINE GRIND SURFACE



MARK IDENTIFIES BEAMSPLITTER SURFACE



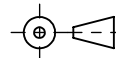
**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**

	S1	S2
SHAPE	PLANO	PLANO
SURFACE ACCURACY AT 632.8nm (P-V)	1 WAVE	1 WAVE
SURFACE QUALITY	60 - 40	60 - 40
SURFACE FLATNESS	2λ PER 25mm	2λ PER 25mm
MIN CLEAR APERTURE	∅ 10.63	∅ 10.63
MIN COATING APERTURE	∅ 10.63	∅ 10.63
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

**EO**® Edmund Optics®

THIRD ANGLE PROJECTION



TITLE

BS VIS 50R/50T 12.5mm DIA 1MM THK

DWG NO

35940

SHEET  
1 OF 1

ALL DIMS IN

mm