

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:  
 $R(\text{abs}) = 70\% \pm 5\% @ 550\text{nm}$   
 $R(\text{abs}) = 70\% \pm 10\% \text{ FROM } 400\text{-}700\text{nm}$   
 $T(\text{abs}) = 30\% \pm 5\% @ 550\text{nm}$   
 $T(\text{abs}) = 30\% \pm 10\% \text{ FROM } 400\text{-}700\text{nm}$   
 VISUAL COLOR = NEUTRAL

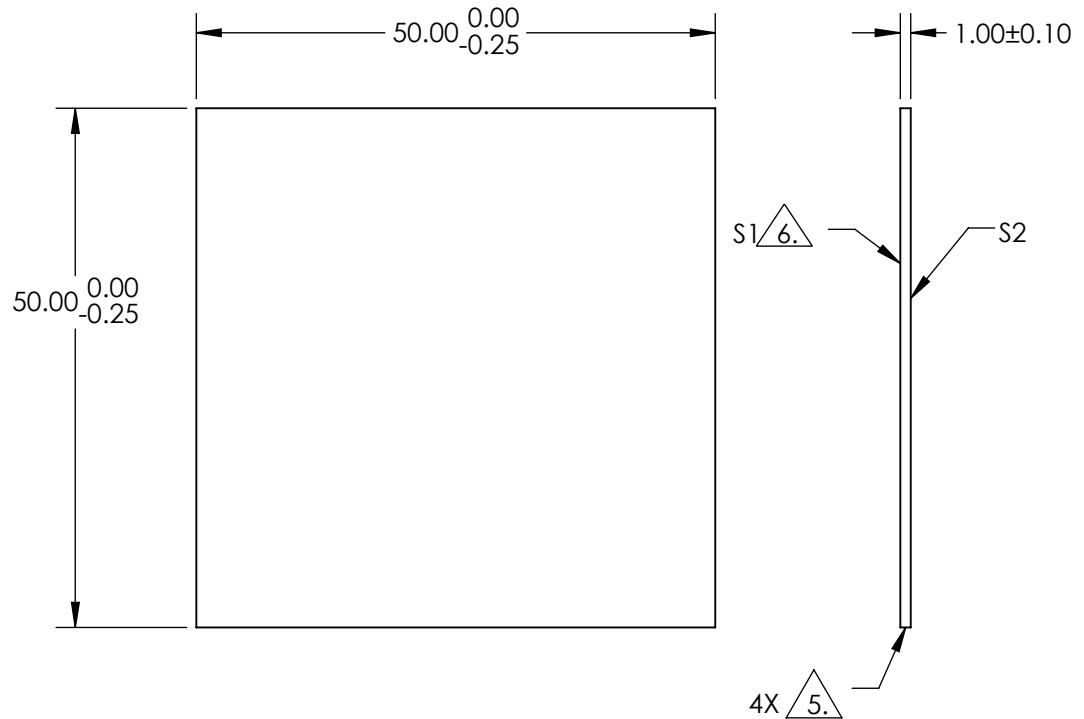
S2: BBAR  
 $R(\text{abs}) \leq 2.0\% \text{ FROM } 400\text{-}700\text{nm}$   
 $R(\text{avg}) \leq 1.0\% \text{ FROM } 400\text{-}700\text{nm}$



FINE GRIND SURFACE



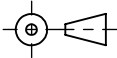
MARK IDENTIFIES BEAMSPLITTER SURFACE



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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

|                      | S1                   | S2                   |
|----------------------|----------------------|----------------------|
| SHAPE                | PLANO                | PLANO                |
| SURFACE FLATNESS     | 2λ PER 25mm          | 2λ PER 25mm          |
| SURFACE QUALITY      | 60 - 40              | 60 - 40              |
| MIN CLEAR APERTURE   | 42.50 x 42.50        | 42.50 x 42.50        |
| MIN COATING APERTURE | 42.50 x 42.50        | 42.50 x 42.50        |
| BEVEL                | PROTECTIVE AS NEEDED | PROTECTIVE AS NEEDED |

THIRD ANGLE PROJECTION 

ALL DIMS IN mm

**EO**® Edmund Optics®

TITLE: BS VIS 70R/30T 50X50MM 1MM THK

DWG NO: 35955

SHEET 1 OF 1