

NOTES:

1. SUBSTRATE MATERIAL:  
FUSED SILICA
2. SURFACE S2 TO BE PARALLEL TO SURFACE S1 <10 ARCSEC
3. COATING (APPLY ACROSS COATING APERTURE)  
S1: ULTRAFAST LASER  
Rs >99.75% @ 320 - 370nm @ 45° AOI  
Rp >99.5% @ 327 - 363nm @ 45° AOI AT 45° AOI

DAMAGE THRESHOLD,

0.55 J/cm<sup>2</sup> @ 343nm, 180fs FWHM, S-polarization, 1 pulse (typical)  
0.25 J/cm<sup>2</sup> @ 343nm, 180fs FWHM, S-polarization, 1000 pulses (typical)  
0.37 J/cm<sup>2</sup> @ 343nm, 180fs FWHM, P-polarization, 1 pulse (typical)  
0.22 J/cm<sup>2</sup> @ 343nm, 180fs FWHM, P-polarization, 1000 pulses (typical)

S2: STRESS COMPENSATING COATING

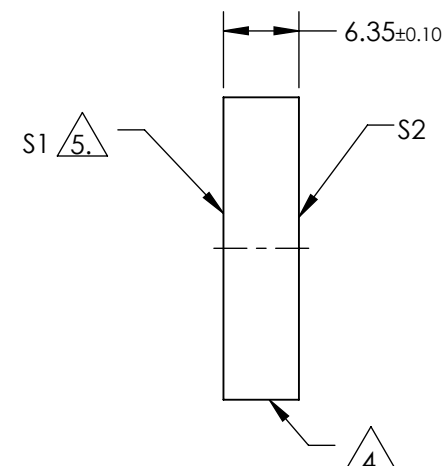
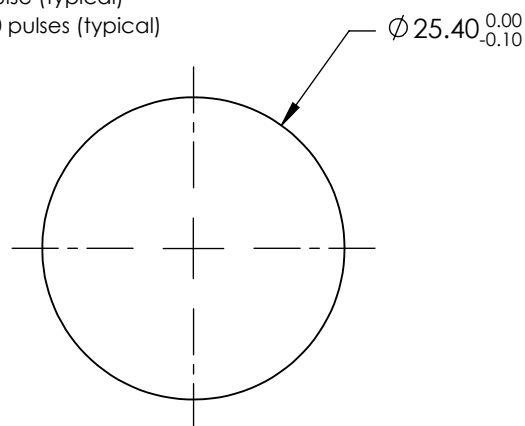
GROUP DELAY DISPERSION:

S-POL: 0 ±10fs @ 320 - 370nm @ 45° AOI  
P-POL: 0 ±10fs @ 330 - 360nm @ 45° AOI

4. FINE GROUND SURFACE

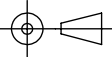
5. SURFACE ROUGHNESS: <5Å RMS

6. RoHS: COMPLIANT



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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

	S1	S2	Edmund Optics®			
SHAPE	PLANO	PLANO				
SURFACE FLATNESS	$\lambda/10$	N/A				
SURFACE QUALITY	10-5	COMMERCIAL POLISH	TITLE 343nm, 25.4mm Dia., Low GDD Ultrafast Mirror			
CLEAR APERTURE (%)	>80	N/A				
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED	ALL DIMS IN	mm	DWG NO 12464	SHEET 1 OF 1