

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

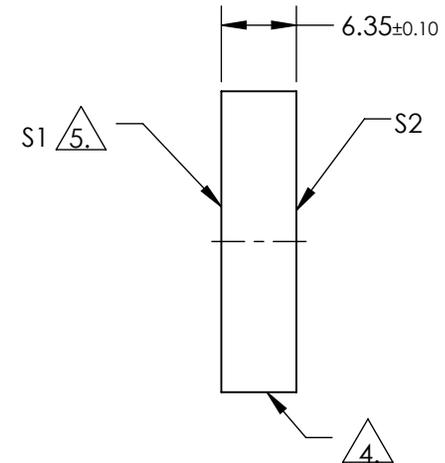
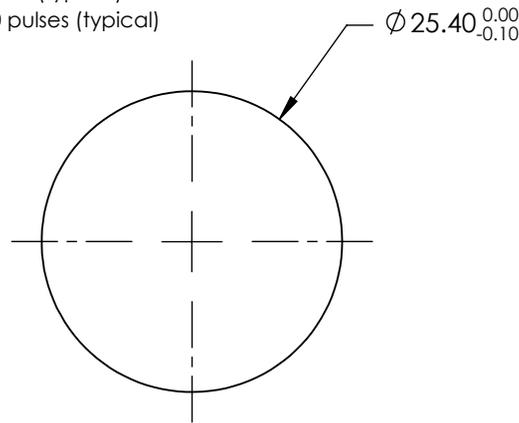
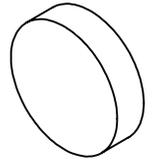
GROUP DELAY DISPERSION:

- S-POL: 0 ±10fs<sup>2</sup> @ 320 - 370nm @ 45° AOI
- P-POL: 0±10fs<sup>2</sup>@ 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	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>THIRD ANGLE PROJECTION</p> </div> <div> <p>TITLE</p> <p>343nm, 25.4mm Dia., Low GDD Ultrafast Mirror</p> </div> </div>				
SURFACE FLATNESS	λ/10	N/A					
SURFACE QUALITY	10-5	COMMERCIAL POLISH					
CLEAR APERTURE (%)	>80	N/A					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED					
			ALL DIMS IN	mm	DWG NO	12464	SHEET 1 OF 1