

Dielectric Polarizer



Product Information

These kind of polarizers have been developed for demanding lasers separating or blocking S or P polarization.

Applications

- High-Power Laser
- Solid-State Laser
- Gas Laser
- Beam Delivery

Advantages

- Polishing and coating in house
- Extensive expertise in material handling
- Strength in coating
- Very good extinction ratio
- Fine polishing with low roughness
- Low Scratch-Dig

Specifications

Region for center wavelength	350–1600 nm, other wavelengths on demand
Diameter	12.7–101.6 mm, other diameters on demand
Surface quality	S-D 10 – 5, depending on dimension
Roughness	< 1 nm RMS
Surface flatness	$\leq \lambda/10$, depending on dimension
Wavefront distortion	$\lambda/10$, depending on dimension
Extinction ratio	up to 1000:1
Angle of incidence	57°, other angles on demand
Damage threshold	> 20 J/cm ² @1064, S-on-1, 10 ns
Coating	Multi-dielectric

Materials

- SCHOTT N-BK7®
- Optical glasses
- Fused silica

Quality Assurance

The following Quality Assurance equipment is used:

- Bench for extinction ratio measurement



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