

Spectral Shaping Filter

This is a specialized filter designed to minimize pulse broadening in Ti:S ultrafast lasers. The first surface coating has a transmission dip centered at 800 nm. The nominal coating bandwidth is 65 nm. The exact center of the transmission band can be adjusted by varying the incident angle between 40° and 50°. The magnitude of the attenuation can be adjusted from less than 10% to greater than 20% by rotating the filter angle relative to the beam polarization.

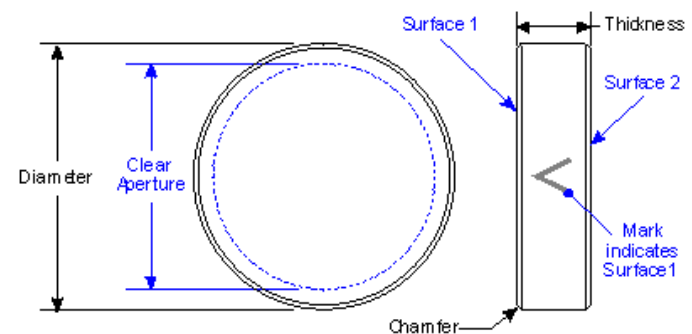
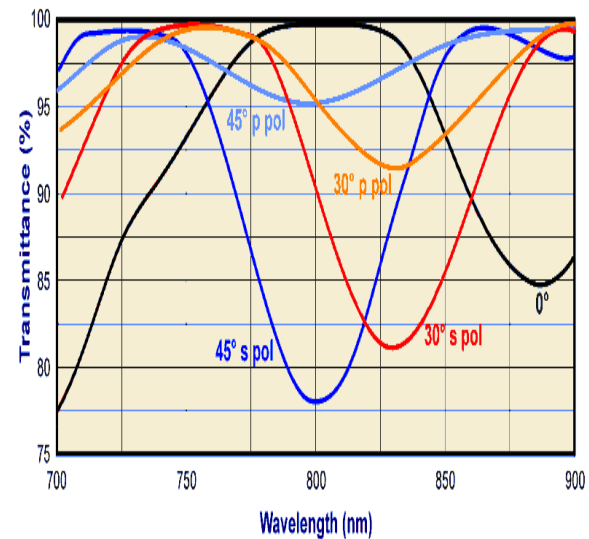
Advantages

- Minimal group velocity dispersion
- High efficiency
- Superior laser damage resistance
- Excellent mechanical durability
- Temperature insensitive

Common Specifications

FWHM	65 ± 8
Chamfer	0.50 mm at 45°
Clear Aperture	85%
Diameter Tolerance	+0.00, -0.13 mm
Material	Fused Silica
Surface Quality	20-10
Thickness Tolerance	±0.25 mm
Wavefront Distortion	< λ/10 at 633 nm over any 4 mm sub-aperture
Wedge	<5 arc minutes
Surface 1 Coating	Ultrafast amplifier gain compensation coating
Surface 1 Angle Of Incidence	40° to 50°
Surface 2 Coating	Antireflection

Part Number	Diameter	Thickness
SF6040	25.4	2.0
SF6080	50.8	4.0



Alpine Research Optics, 6810 Winchester Circle, Boulder, Colorado 80301

sales@arocorp.com 303-444-3420

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東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング TEL:03-3356-1064
大阪営業所 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館 TEL:06-6305-2064
名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル TEL:052-569-6064

E-mail: info@optoscience.com