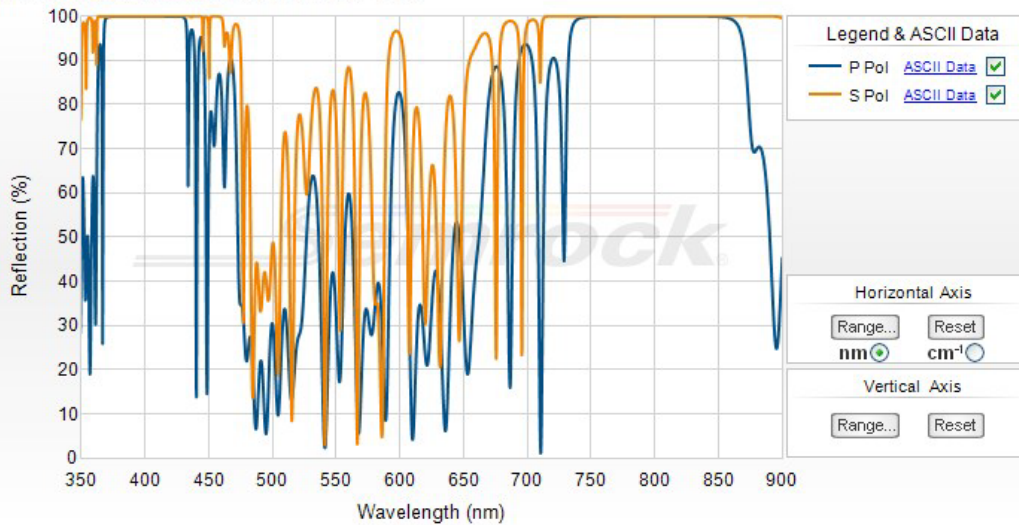


Semrock® PulseLine™ Femtosecond Dual-Band Mirror

Part Number: FS01-M400/800TiS45SP-25.4



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 (within US and Canada)

Above data is for s & p polarized light at 45 degrees incidence. P-pol and S-pol are theory data.



Semrock® PulseLine™ Femtosecond Dual-Band Mirror

Semrock's PulseLine Femtosecond Mirrors offer high reflectivity and have a controlled group delay dispersion (GDD) profile optimized for ~40 - 120 fs Ti:Sapphire lasers.

Part Number	Size	Price ¹	Stock Status
FS01-M400/800TiS45SP-25.4	25.4 mm x 6.0 mm (unmounted)		In Stock

This part is not available for custom sizing.

1) US domestic pricing only. If you are ordering from outside the US, please contact your nearest [regional distributor](#) for the correct list price.

Optical Specifications

Specification	Value
Reflection Band 1 (s-pol & p-pol)	Ravg, s-pol & p-pol > 99.7% 375 – 425 nm
Reflection Band 2 (s-pol & p-pol)	Ravg, s-pol & p-pol > 99.8% 775 – 825 nm
Group Delay Dispersion 1	0 ± 500 fs ² 375 - 425 nm
Group Delay Dispersion 2	0 ± 500 fs ² 775 - 825 nm
Angle of Incidence	45.0 ± 1.5 degrees
Reflection Band 3 (s-pol & p-pol)	Rabs, s-pol & p-pol > 20% @ 532 nm (for system alignment purposes)

General Filter Specifications

Specification	Value
Group Delay Dispersion Metrology	GDD Metrology Details
Optical Damage Rating	50 mJ/cm ² @ 800 nm (50 fs pulse width)
Flatness	0.1 waves/inch

Physical Filter Specifications (applies to standard sized parts; contact us regarding other sizes)

Specification	Value
Transverse Dimensions (Diameter)	25.4 mm
Transverse Tolerance	+ 0.0 / - 0.1 mm
Filter Thickness (unmounted)	6.0 mm
Filter Thickness Tolerance (unmounted)	± 0.1 mm
Clear Aperture	≥ 85% (elliptical)
Scratch-Dig	20-10 (Side 1), 80-50 (Side 2)
Substrate Thickness (Unmounted)	6.0 mm
Substrate Thickness Tolerance (Unmounted)	+ 0.0 / - 0.1 mm
Orientation	Arrow denotes mirror coating