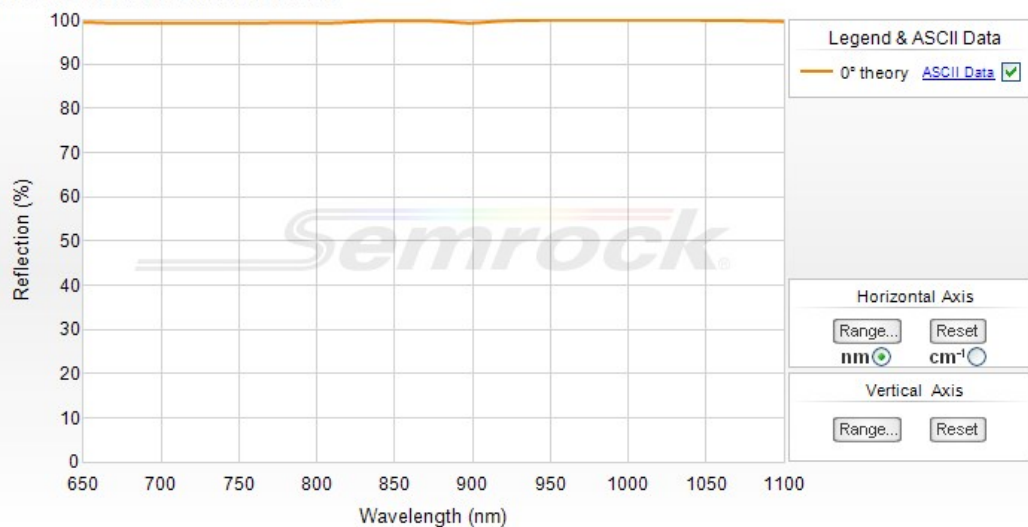


Semrock® PulseLine™ Femtosecond Mirror

Part Number: FS01-MTiS45S-25.4



Semrock, Inc

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(within US and Canada)

Your filter spectrum may differ slightly from the typical spectrum above, but is certified to meet the optical specifications noted below.



Semrock® PulseLine™ Femtosecond 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-MTiS45S-25.4	25.4 mm x 6.0 mm (unmounted)	\$565	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)	R _{abs, s-pol} > 99.0% 650 – 1100 nm
Group Delay Dispersion	-25 ± 125 fs ² 650-1100 nm
Angle of Incidence	45.0 ± 1.0 degrees

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