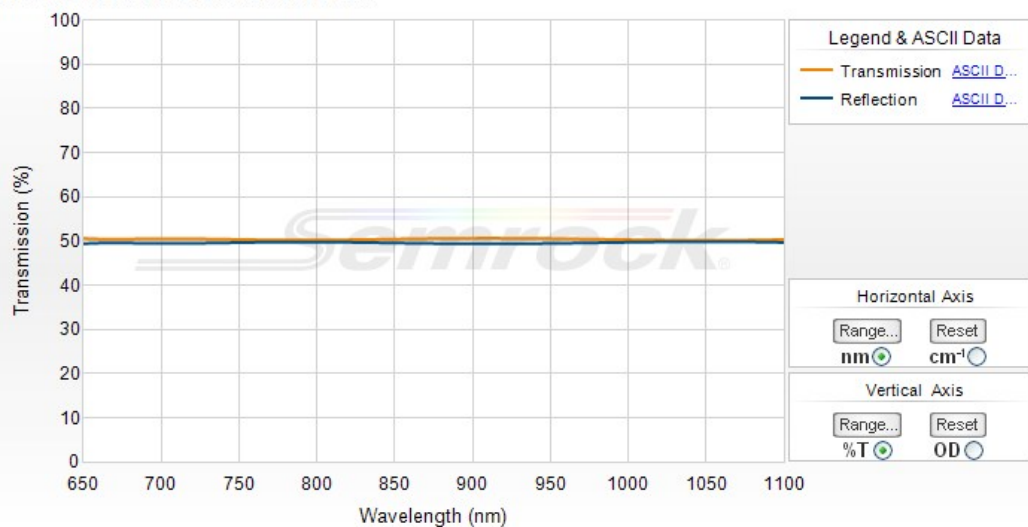


## Semrock® PulseLine™ Femtosecond Beamsplitter

Part Number: FS01-BSTiS-5050S-25.4



### Semrock, Inc

3625 Buffalo Road, Suite 6  
Rochester, New York 14624

Main Phone: +1 585.594.7050 (worldwide)  
Toll Free Phone: 866.736.7625 (866-SEMROCK)  
(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 Beamsplitter

Semrock's PulseLine Femtosecond Beamsplitters offer a consistent transmission & reflectivity splitting ratio in addition to a controlled group delay dispersion (GDD) profile optimized for ~40 - 120 fs Ti:Sapphire lasers.

Part Number	Size	Price <sup>1</sup>	Stock Status
FS01-BSTiS-5050S-25.4	25.4 mm x 3.0 mm (unmounted)	\$355	In Stock

This part is not available for custom sizing.

<sup>1</sup> 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)	$R_{avg, s-pol} > 50\% \pm 3\%$ 650 – 1100 nm
Transmission Band 1 (s-pol)	$T_{avg, s-pol} > 50\% \pm 3\%$ 650 – 1100 nm
Group Delay Dispersion	$0 \pm 10$ fs <sup>2</sup> 650-1100 nm

### General Filter Specifications

Specification	Value
Group Delay Dispersion Metrology	<a href="#">GDD Metrology Details</a>
Angle of Incidence	$45.0 \pm 1.0$ degrees
Optical Damage Rating	Pending
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)	3.0 mm
Filter Thickness Tolerance (unmounted)	+ 0.0 / - 0.1 mm
Clear Aperture	$\geq 85\%$
Scratch-Dig	20-10
Substrate Thickness (Unmounted)	3.0 mm
Substrate Thickness Tolerance (Unmounted)	+ 0.0 / - 0.1 mm
Orientation	Arrow denotes beamsplitter coating

