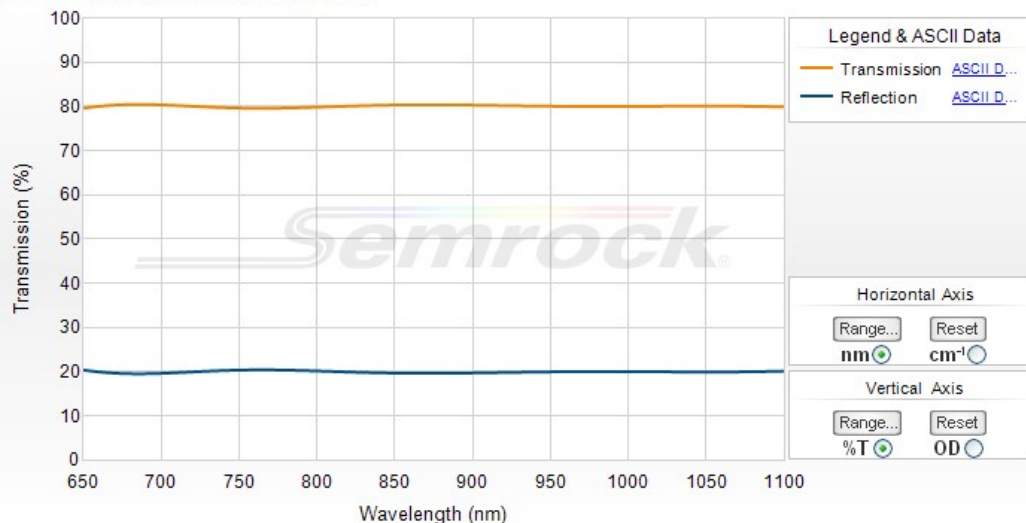


Semrock® PulseLine™ Femtosecond Beamsplitter

Part Number: FS01-BSTiS-2080S-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 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 ¹ | Stock Status |
|-----------------------|---------------------------------|--------------------|--------------|
| FS01-BSTiS-2080S-25.4 | 25.4 mm x 3.0 mm (unmounted) | \$355 | 2nd Day Ship |

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) | $R_{avg, s-pol} > 20\% \pm 3\%$ 650 – 1100 nm |
| Transmission Band 1 (s-pol) | $T_{avg, s-pol} > 80\% \pm 3\%$ 650 – 1100 nm |
| Group Delay Dispersion | 0 ± 10 fs ² 650-1100 nm |

General Filter Specifications

| Specification | Value |
|----------------------------------|---------------------------------------|
| Group Delay Dispersion Metrology | GDD Metrology Details |
| Angle of Incidence | 45.0 ± 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 |

