eSource Optics
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Window Sale! Excess Parts
Square Windows
Circular Windows >=12.7mm
Circular Windows

Broadband VUV to UV Optical Beamsplitters

170nm to 300nm

eSource Optics Broadband VUV to UV Optical Beamsplitters (BBVUVBS) are Metallic VUV to UV broadband beamsplitter optical coatings that are designed to provide 40% to 50% average Reflectance and Transmission over the 170nm to 300nm VUV-UV wavelength range @ 45 degrees Angle of Incidence (AOI) Unpolarized.

eSource Optics Broadband VUV to UV Optical Beamsplitters (BBVUVBS) are available in standard 25.4mm and 50.8mm Diameters. Other sizes are available upon request. eSource Optics Broadband VUV to UV Optical Beamsplitters (BBUVBS) are metal-dielectric-metal (MDM) design thin-film coatings supplied as Unmounted and Open-Faced VUV-UV Beamsplitters. Open-Faced Broadband VUV to UV Optical Beamsplitters (BBUVBS) are manufactured using high purity UV grade Fused Silica substrate for VUV to UV wavelengths 170nm to 300nm. All VUV to UV Optical Beamsplitters (BBVUVBS) substrates are highly polished to a <=40-20 scratch & dig surface quality with less than 5 arc minutes parallelism.

SPECIFICATIONS

Material: UV Grade Fused Silica
Wavelength Range: 170-300nm
Diameter (Ø)Tolerance: ±0.25mm
Thickness: ~2.0-5.0mm
Surface Quality: ~20-10 to 60-40 scratch-dig
Surface Figure: < 2 waves @ 632.8nm
Wedge: <= 3 arc minutes
Clear Aperture: central 85%

All dimensions in mm

VUV to UV Wavelength Range (nm)	AOI (Unpolarized)	Reflection/Transmission	Diameter(mm)	Product #	Unit Price	ORDER
170nm to 300nm	45 degrees	40% to 50% Avg Optical Beamsplitter	12.7mm	12BBVUVBS	$550.00	12BBVUVBS
170nm to 300nm	45 degrees	40% to 50% Avg Optical Beamsplitter	25.4mm	25BBVUVBS	$595.00	25BBVUVBS
170nm to 300nm	45 degrees	40% to 50% Avg Optical Beamsplitter	50.8mm	50BBVUVBS	$675.00	50BBVUVBS

Availability: eSource Optics VUV to UV Beamsplitters are supplied on a per order basis; lead-time is typically within ~3-4 weeks.

>=38.1mm
Hardwood Optics Cases
VUV Material Properties
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Rainbowindows: Optics Fun
Optics Tutorial & Info.
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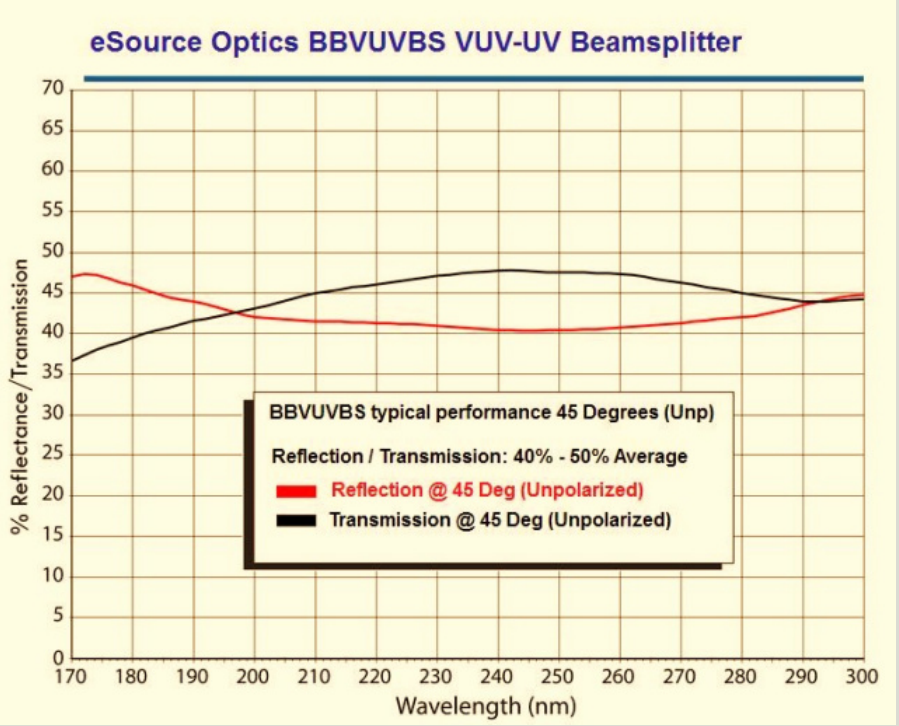

All eSource Optics Broadband VUV to UV Optical Beamsplitters (BBVUVBS) are supplied with individual Vacuum UV % Reflection/Transmission Calibration Curves detailing 45 degree (unpolarized) VUV through UV spectral performance characteristics. Broadband VUV to UV Optical Beamsplitters (BBVUVBS) are mainly used in VUV to UV light source and low power applications requiring nearly equal separation of Reflected and Transmitted broadband VUV through UV wavelengths.

. **Also see our VUV Bandpass Optical Filters & UV Bandpass Optical Filters**

Back to Products

eSource Optics / PMB 126 / 1225 Providence Rd. / Whitinsville, MA 01588

VUV-UV Optical Filters & Mirrors/Windows/Lenses/Hardwood Optics Cases & Boxes