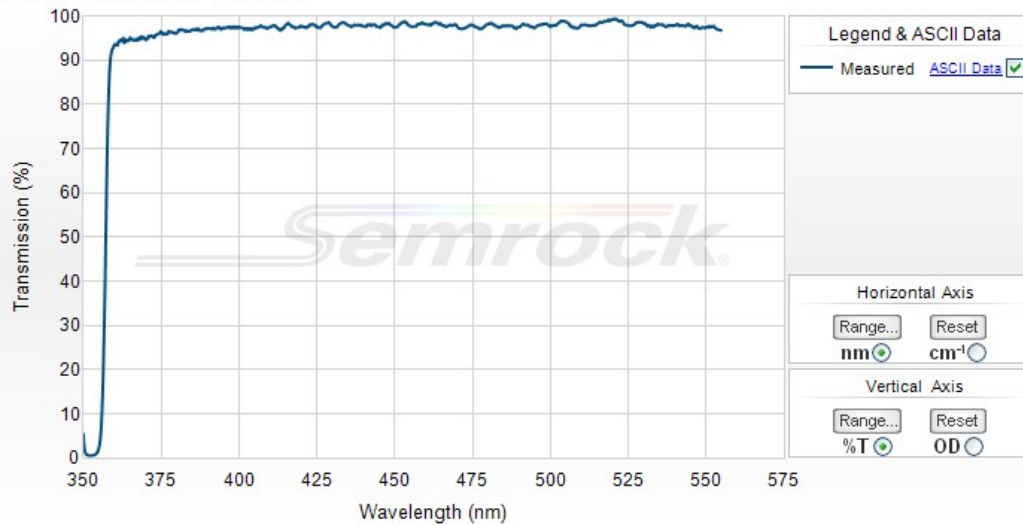


### 355 nm RazorEdge Dichroic™ laser-flat beamsplitter

Part Number: LPD01-355RU-25



#### 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.



#### 355 nm RazorEdge Dichroic™ laser-flat beamsplitter

Each beamsplitter reflects a standard laser line incident at 45° while efficiently passing the longer Raman-shifted wavelengths. The filters exhibit ultrasteep transitions from reflection to transmission, with a guaranteed transition width of < 1% of the laser wavelength for the U-grade version.

Part Number	Size	Price <sup>1</sup>	Stock Status
LPD01-355RU-25	25 mm x 3.5 mm	\$575	In Stock
LPD01-355RU-25x36x1.1	25.2 mm x 35.6 mm x 1.1 mm (unmounted)	\$795	In Stock
LPD01-355RU-25x36x2.0	25.2 mm x 35.6 mm x 2.0 mm (unmounted)	\$795	In Stock

This part is not available for custom sizing - [contact us](#) (semrock@idexcorp.com) for 50.8mm sizes

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	R <sub>abs</sub> > 94% 355 nm
Reflection Band 1 (p-pol)	R <sub>abs</sub> > 90% 355 nm
Reflection Band 1 (s-pol)	R <sub>abs</sub> > 98% 355 nm
Edge Wavelength 1	358.6 nm
Transmission Band 1	T <sub>avg</sub> > 90% 359.6 – 550.3 nm

#### General Filter Specifications

Specification	Value
Angle of Incidence	45 degrees with a shift of 0.35%/degree (40 – 50 degrees)
Cone Half-angle	0.5 degrees
Optical Damage Rating	1 J/cm <sup>2</sup> @ 532 nm (10 ns pulse width)
Flatness	<a href="#">Laser Flat</a>
Steepness	Ultra Steep
Laser Wavelength 1	355 nm
Edge Steepness (%)	0.5%
Edge Steepness (nm)	1.8 nm
Edge Steepness (cm-1)	140.1 cm <sup>-1</sup>
Transition Width (nm)	3.6 nm
Transition Width (cm-1)	279 cm <sup>-1</sup>
Effective Index	1.84

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

Specification	Value
Transverse Dimensions (Diameter)	25 mm
Transverse Tolerance	$\pm 0.1$ mm
Clear Aperture	$\geq 80\%$
Scratch-Dig	60-40
Substrate Type	Fused Silica
Substrate Thickness (unmounted)	2.0 mm
Substrate Thickness Tolerance (unmounted)	$\pm 0.1$ mm
Orientation	Arrow on ring indicates preferred direction of propagation of light.