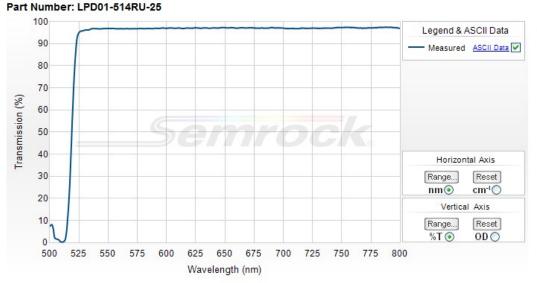
514.5 nm RazorEdge Dichroic™ laser-flat beamsplitter





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.



514.5 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	Price1	Stock Status
LPD01-514RU-25	25 mm x 3.5 mm	\$575	In Stock
LPD01-514RU-25x36x1.1	25.2 mm x 35.6 mm x 1.1 mm (unmounted)	\$795	In Stock
LPD01-514RU-25x36x2.0	25.2 mm x 35.6 mm x 2.0 mm (unmounted)	\$795	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

The Control of the Co	
Specification	Value
Reflection Band 1	Rabs > 94% 514.5 nm
Reflection Band 1 (p-pol)	Rabs > 90% 514.5 nm
Reflection Band 1 (s-pol)	Rabs > 98% 514.5 nm
Edge Wavelength 1	519.6 nm
Transmission Band 1	Tavg > 93% 521.2 - 797.5 nm

General Filter Specifications

0 15 1	11.1	
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 ² @ 532 nm (10 ns pulse width)	
Flatness	Laser Flat	
Steepness	Ultra Steep	
Laser Wavelength 1	514.5 nm	
Edge Steepness (%)	0.5%	
Edge Steepness (nm)	2.6 nm	
Edge Steepness (cm-1)	96.7 cm-1	
Transition Width (nm)	5.1 nm	
Transition Width (cm-1)	192 cm-1	
Effective Index	1.8	

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

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