

RazorEdge® Long Wave Pass Raman Edge Filters



Semrock stocks an unsurpassed selection of the highest performance edge filters available for Raman Spectroscopy, with edge wavelengths from 224 to 1319 nm. Now you can see the weakest signals closer to the laser line than you ever have before. With their deep laser-line blocking, ultra-wide and low-ripple passbands, proven hard-coating reliability, and high laser damage threshold, they offer performance that lasts. U.S. Patent No. 7,068,430.

- › The steepest edge filters on the market – RazorEdge E-grade filters See how steep on page 87
- › For long-wave-pass edge filters and normal incidence, see below
- › For short-wave-pass edge filters and normal incidence, see page 88
- › For ultrasteep 45° beamsplitters, see page 90
- › For a suitably matched laser-line filter, see page 92

25 mm and 50 mm Diameters

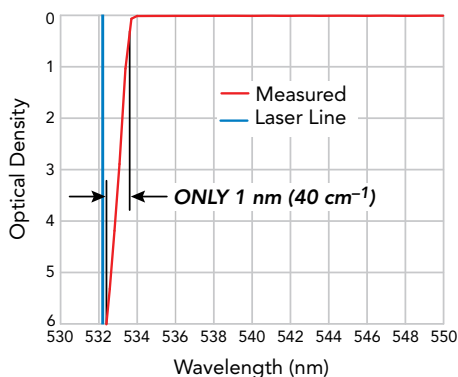
Laser Line	Transition Width ⁽¹⁾	Passband	Part Number	Price
224.3 nm	< 1920 cm ⁻¹	235.0-505.9 nm	LP02-224R-25	\$1025
New 244 nm	< 498 cm ⁻¹	247.6 - 550.4 nm	LP02-244RS-25	\$1025
248.6 nm	< 805 cm ⁻¹	261.0-560.8 nm	LP02-248RS-25	\$1025
257.3 nm	< 385 cm ⁻¹	263.0-580.4 nm	LP02-257RU-25	\$1025
266.0 nm	< 372 cm ⁻¹	272.4-600.0 nm	LP02-266RU-25	\$1025
325.0 nm	< 153 cm ⁻¹	327.1-733.1 nm	LP03-325RE-25	\$1025
	< 305 cm ⁻¹	329.2-733.1 nm	LP03-325RU-25	\$695
355.0 nm	< 140 cm ⁻¹	357.3-800.8 nm	LP02-355RE-25	\$1025
	< 279 cm ⁻¹	359.6-800.8 nm	LP02-355RU-25	\$695
363.8 nm	< 137 cm ⁻¹	366.2-820.6 nm	LP02-364RE-25	\$1025
	< 272 cm ⁻¹	368.5-820.6 nm	LP02-364RU-25	\$695
407.0 nm	< 243 cm ⁻¹	412.3-918.0 nm	LP02-407RU-25	\$695
441.6 nm	< 113 cm ⁻¹	444.5-996.1 nm	LP02-442RE-25	\$1025
	< 224 cm ⁻¹	447.3-996.1 nm	LP02-442RU-25	\$695
457.9 nm	< 109 cm ⁻¹	460.9-1032.9 nm	LP03-458RE-25	\$1025
	< 216 cm ⁻¹	463.9-1032.9 nm	LP03-458RU-25	\$695
473.0 nm	< 105 cm ⁻¹	476.1-1066.9 nm	LP02-473RE-25	\$1025
	< 209 cm ⁻¹	479.1-1066.9 nm	LP02-473RU-25	\$695
488.0 nm	< 102 cm ⁻¹	491.2-1100.8 nm	LP02-488RE-25	\$1025
	< 203 cm ⁻¹	494.3-1100.8 nm	LP02-488RU-25	\$695
514.5 nm	< 97 cm ⁻¹	517.8-1160.5 nm	LP02-514RE-25	\$1025
	< 192 cm ⁻¹	521.2-1160.5 nm	LP02-514RU-25	\$695
532.0 nm	< 90 cm ⁻¹	535.4-1200.0 nm	LP03-532RE-25	\$1025
	< 186 cm ⁻¹	538.9-1200.0 nm	LP03-532RU-25	\$695

Laser Line	Transition Width ⁽¹⁾	Passband	Part Number	Price
561.4 nm	< 89 cm ⁻¹	565.0-1266.3 nm	LP02-561RE-25	\$1025
	< 176 cm ⁻¹	568.7-1266.3 nm	LP02-561RU-25	\$695
568.2 nm	< 174 cm ⁻¹	575.6-1281.7 nm	LP02-568RU-25	\$695
632.8 nm	< 79 cm ⁻¹	636.9-1427.4 nm	LP02-633RE-25	\$1025
	< 156 cm ⁻¹	641.0-1427.4 nm	LP02-633RU-25	\$695
638 nm	< 78 cm ⁻¹	642.1-1439.1 nm	LP02-638RE-25	\$1025
	< 155 cm ⁻¹	646.3-1439.1 nm	LP02-638RU-25	\$695
647.1 nm	< 153 cm ⁻¹	655.5-1459.6 nm	LP02-647RU-25	\$695
664.0 nm	< 149 cm ⁻¹	672.6-1497.7 nm	LP02-664RU-25	\$695
671.0 nm	< 147.6 cm ⁻¹	679.7-1513.5 nm	LP02-671RU-25	\$695
780.0 nm	< 127 cm ⁻¹	790.1-1759.4 nm	LP02-780RU-25	\$695
785.0 nm	< 63 cm ⁻¹	790.1-1770.7 nm	LP02-785RE-25	\$1025
	< 126 cm ⁻¹	795.2-1770.7 nm	LP02-785RU-25	\$695
808.0 nm	< 62 cm ⁻¹	813.3-1822.6 nm	LP02-808RE-25	\$1025
	< 123 cm ⁻¹	818.5-1822.6 nm	LP02-808RU-25	\$695
830.0 nm	< 60 cm ⁻¹	835.4-1872.2 nm	LP02-830RE-25	\$1025
	< 119 cm ⁻¹	840.8-1872.2 nm	LP02-830RU-25	\$695
980.0 nm	< 51 cm ⁻¹	986.4-2000.0 nm	LP02-980RE-25	\$1025
	< 101 cm ⁻¹	992.7-2000.0 nm	LP02-980RU-25	\$695
1064.0 nm	< 47 cm ⁻¹	1070.9-2000.0 nm	LP02-1064RE-25	\$1025
	< 93 cm ⁻¹	1077.8-2000.0 nm	LP02-1064RU-25	\$695
1319.0 nm	< 75 cm ⁻¹	1336.1-2000.0 nm	LP02-1319RU-25	\$695
50 mm LWP Edge Filters - Wavelengths above			LP0_-__RU-50	\$1985

⁽¹⁾ See pages 87 and 96 for more information on transition width and wavenumbers

ACTUAL MEASURED DATA RAZOREDGE RAMAN FILTER SPECTRA

Actual measured OD 532 nm E-grade filter



The spectral response of a U-grade filter is located anywhere between the red and blue lines below.

