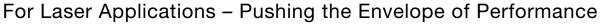
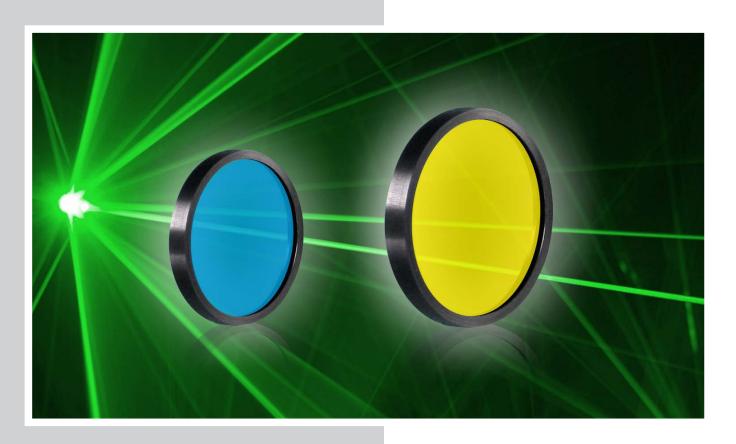


ULTRA-NARROWBAND FILTERS







LARGE FORMAT AND IMPROVED TEMPERATURE STABILITY

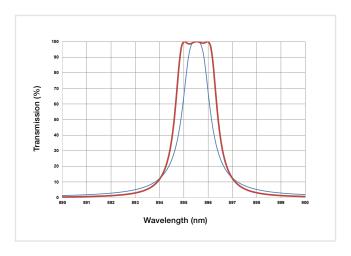
These hard-coated filters with very narrow bandwidth are used in optical systems, like LIDAR (light detection and ranging), Doppler shift detection of plasma velocity, laser clean-up, chemical and gas sensing, as well as for cutting-edge astronomy and instrumentation applications. They are highly resistant to laser damage, which ensures a high level of performance for a long period of time.

APPLICATIONS

- :: Laser Clean-up
- :: Quantum optics
- :: Spectroscopy
- :: Astronomy
- :: LIDAR
- :: Plasma physics

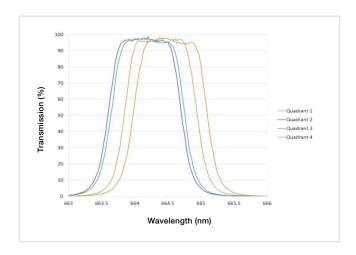
OUR PARTNER





FROM DESIGN TO SPECIFIC ULTRA-NARROWBAND FILTER (UNBF)

- :: Fully customizable
- :: Example of 895.5/1 nm and 895.5/1.5 UNBF
- :: Transmission > 92 %
- :: Customized out of bandpass blocking OD4/OD6 from 700-1100 nm
- Example on the left shows two different designs, blue curve was realized



MODERN PLASMA COATINGS

- :: Highly reproducible square top filters with low ripple
- :: Low temperature dependence, e.g. for 532 nm 2.5 pm/K
- :: Exceptional transmission
- :: Large formats (up to 75 mm) with minimum variation (center wavelength 0,06 %, FWHM 0,02 %)

CWL (nm)	FWHM (nm)	FWHM (%)	OD
317.5	1.5	0.472	6
354.717	0.15	0.042	5
410.3	1.1	0.268	5
532.079	0.17	0.032	5
656.1	1	0.152	4
828.007	0.5	0.060	5
1030.2	0.6	0.058	8
1064.164	0.4	0.038	5

EXAMPLES OF AVAILABLE UNBF

- :: Ultra-narrowband designs from UV to IR with minimum 0.15 nm FWHM
- :: Blocking up to OD 8 over a broad spectral range possible
- :: Filter bandwidth cannot be measured with commercial available instruments

OUR FILTER TEAM IS HAPPY TO GIVE SUPPORT!





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