

OPTICAL FILTERS

Low-Cost, Quality... Interference Filters



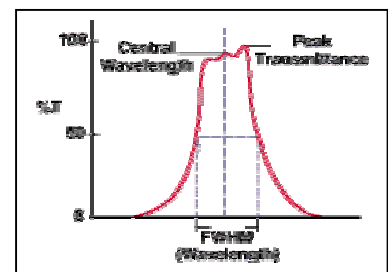
Filters Built to Last

Vin Karola offers a wide variety of band pass filters to meet your design needs. Standard stock includes filters of varying sizes from 1/2", 3/4", and 1" in diameter. These can be packaged in unique telescoping rings or unmounted to allow further flexibility in meeting your design criteria.

Ideal for Use in OEM Applications	
Gas Analyzers	Detectors
Instrumentation	Photomultipliers
Energy Sources	Research and Development

Glossary

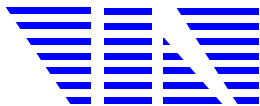
Bandwidth	Width of pass band expressed in units of wavelength. Expressed as the difference in wavelength at one-half peak transmission above and below the center wavelength.
FWHM	Full width at half maximum: refers to the bandwidth of the filter. Expressed as the width of the pass band at the half-power point.
Cavity	Basic building block of the interference filter. Each cavity is a single tuned element in the filter. Increasing the number of cavities results in a more square shape of the pass band.
Transmission	Ratio of the output energy of a filter to its input energy. Expressed in terms of percentage (%T).



GENERAL SPECIFICATIONS:

CWL (nm)	FWHM (nm)	%T min	# of Cavities	Sizes/Mounting Options	Remarks
400.00 ± 2.0	10.0 ± 2.0	37	3	<p>All filters are available in 1/2", 3/4", 1" diameter.</p> <p>All filters are available in Mounted, and Unmounted version. Custom sizes available</p> <p>Sizes</p> <p>With Mounting Rings</p> <p>1/2" diameter: 0.497" +/- 0.003" Thickness: 0.210"</p> <p>3/4" diameter: 0.747" +/- 0.003" Thickness: 0.210"</p> <p>1.0" diameter: 0.997" +/- 0.003" Thickness: 0.210"</p> <p>Without Mounting Rings</p> <p>1/2" diameter: 0.500" +/- 0.005" Thickness: 0.15"</p> <p>3/4" diameter: 0.750" +/- 0.005" Thickness: 0.15"</p> <p>1.0" diameter: 1.00" +/- 0.005" Thickness: 0.15"</p> <p>Custom sizes available</p>	
405.00 ± 2.0	10.0 ± 2.0	37	3		Ni
410.00 ± 2.0	10.0 ± 2.0	40	3		Biomedical
415.00 ± 2.0	10.0 ± 2.0	40	3		
420.00 ± 2.0	10.0 ± 2.0	40	3		
430.00 ± 2.0	10.0 ± 2.0	40	3		Hg
435.80 ± 2.0	10.0 ± 2.0	40	3		
440.00 ± 2.0	10.0 ± 2.0	43	3		Biomedical
450.00 ± 2.0	10.0 ± 2.0	45	3		Biomedical
450.00 ± 5.0	40.0 ± 5.0	60	5		
457.90 ± 2.0	10.0 ± 2.0	45	3		
460.00 ± 2.0	10.0 ± 2.0	45	3		
467.00 ± 2.0	10.0 ± 2.0	45	3		
470.00 ± 2.0	10.0 ± 2.0	45	3		
480.00 ± 2.0	10.0 ± 2.0	45	3		
488.00 ± 0.5	3.0 ± 0.5	35	2		Argon/Ion laser
488.00 ± 2.0	10.0 ± 2.0	45	3		Argon/Ion laser
490.00 ± 2.0	10.0 ± 2.0	45	3		
500.00 ± 2.0	10.0 ± 2.0	50	3		Biomedical
500.00 ± 5.0	40.0 ± 5.0	70	5		Biomedical
500.00 ± 8.0	70.0 ± 8.0	70	7	Biomedical	
510.00 ± 2.0	10.0 ± 2.0	50	3		
514.50 ± 0.5	3.0 ± 0.5	35	2	Argon/Ion laser	
514.50 ± 2.0	10.0 ± 2.0	50	3	Argon/Ion laser	
520.00 ± 2.0	10.0 ± 2.0	50	3		
530.00 ± 2.0	10.0 ± 2.0	50	3		
532.00 ± 0.5	3.0 ± 0.5	35	2	YAG laser	
532.00 ± 2.0	10.0 ± 2.0	50	3	YAG laser	
540.00 ± 2.0	10.0 ± 2.0	50	3	Biomedical	
550.00 ± 2.0	10.0 ± 2.0	50	3		
632.80 ± 0.5	3.0 ± 0.5	40	2	He-Ne wavelength	
632.80 ± 2.0	10.0 ± 2.0	50	3		
632.80 ± 2.0	10.0 ± 2.0	75	3		
632.80 ± 5.0	40.0 ± 5.0	75	5		
800.00 ± 2.0	10.0 ± 2.0	50	3		
800.00 ± 2.0	15.0 ± 2.0	55	3		
805.00 ± 2.0	35.0 ± 2.0	75	3		
950.00 ± 2.0	10.0 ± 2.0	50	3		

Many other wavelengths are available. Please enquire.



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