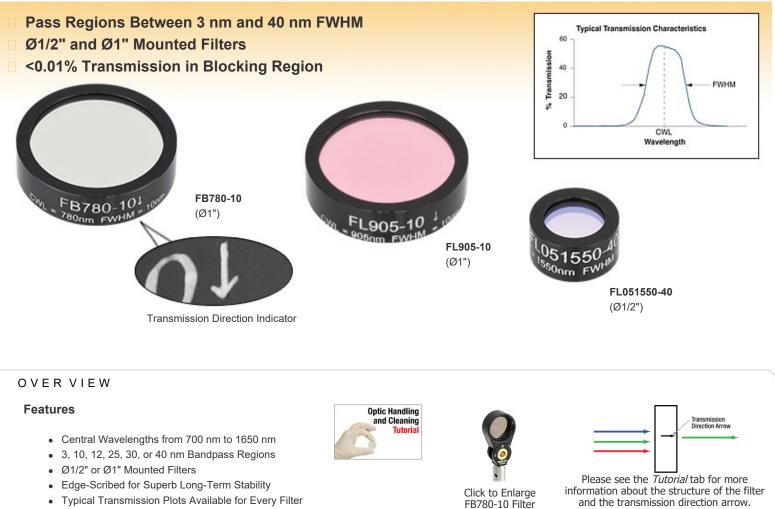
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FB790-10 - October 24, 2022

Item # FB790-10 was discontinued on October 24, 2022. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

NIR BANDPASS & LASER LINE FILTERS: 700 - 1650 NM CENTER WAVELENGTH



Laser Line Filters for Popular Diode and Nd:YAG Laser Lines

The bandpass and laser line filters shown on this page feature center wavelengths of 700 Retaining Ring nm to 1650 nm. Transmission and optical density curves for individual filters are available by clicking on the blue

info icon (\mathbf{U}) for each individual filter below. Each filter is mounted in a black anodized aluminum ring with an outer diameter of Ø1/2" or Ø1" and a maximum edge thickness of 6.3 mm. Please note that Ø1/2" filter options are highlighted in green in the tables below.

Thorlabs' bandpass filters provide one of the simplest ways to transmit a well-defined wavelength band of light, while rejecting other unwanted radiation. Their design is essentially that of a thin film Fabry-Perot Interferometer

formed by vacuum deposition techniques and consists of two reflecting stacks, separated by an even-order spacer layer. These reflecting stacks are constructed from alternating layers of high and low refractive index materials, which can have a reflectance in excess of 99.99%. By varying the thickness of the spacer layer and/or the number of reflecting layers, the central wavelength and bandwidth of the filter can be altered. Because of the Fabry-Perot design, these filters are designed for use at a 0° angle of incidence (AOI). The transmission band will be shifted in wavelength and may be reduced when used with other AOIs. For more details on the properties and construction of our bandpass filters, please see the *Tutorial* tab.

Mounted in a TRF90 Flip Mount Using a

Ø25.4 mm

Clear Aperture Ø21 mm

Ø12.7 mm

Clear Aperture

-63 mm May

6.3 mm Max

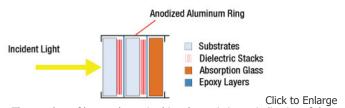
	Additional Bandpass Filters	

	Common Specifications
Out of Band Transmission	<0.01%
Housing Diameter	1/2" (Laser Line) 1" (Bandpass)
Housing Diameter Tolerance	+0.0 / -0.2 mm
Clear Aperture	Ø8.6 mm (Min) for Ø1/2" Ø21 mm (Min) for Ø1"
Thickness	<6.3 mm
Surface/Coating Quality	80-50 Scratch-Dig
Edge Treatment	Mounted in Black Anodized Aluminum Ring
Edge Markings	CWL-FWHM ↑ Lot Number; The Arrow Points in the Direction of the light transmission
Substrates	Schott Borofloat and Soda Lime
Optimum Operating Temperature	23 °C
Operating Temperature	-50 to 80 °C

TUTORIAL

Bandpass Filter Structure

A bandpass filter is created by depositing layers of material on the surface of the substrate. Typically, there are several dielectric stacks separated by spacer layers. The dielectric stack is composed of a large number of alternating layers of low-index and high-index dielectric material. The thickness of each layer in the dielectric stack is $\lambda/4$, where λ is the central wavelength of the bandpass filter (i.e. the wavelength with the highest transmittance through the filter). The spacer layers are placed in between the dielectric stacks and have a thickness of $(n\lambda)/2$, where n is an integer. The spacer layers can be formed from colored glass, epoxy, dyes, metallic, or



The number of layers shown in this schematic is not indicative of the number of layers in an actual bandpass filter. Also the drawing is not to scale.

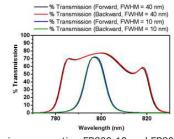
dielectric layers. A Fabry-Perot cavity is formed by each spacer layer sandwiched between dielectric stacks. The filter is mounted in an engraved metal ring for protection and ease of handling.

Filter Operation Overview

The constructive interference conditions of a Fabry-Perot cavity allow light at the central wavelength, and a small band of wavelengths to either side, to be transmitted efficiently, while destructive interference prevents the light outside the passband from being transmitted. However, the band of blocked wavelengths on either side of the central wavelength is small. In order increase the blocking range of the filter, materials with broad blocking ranges are used for or coated onto the spacer layers and the substrate. Although these materials effectively block out of band transmission of incident radiation they also decrease the transmission through the filter in the passband.

Filter Orientation

An engraved arrow on the edge of the filter is used to indicate the recommended direction for the transmission of light through the filter. Although the filter will function with either side facing the source, it is better to place the coated side toward the source. This will minimize any thermal effects or possible thermal damage that blocking intense out-of-band radiation might cause due to the absorption of the out-of-band radiation by the substrate or colored glass filter layers. The plot to the right was made by illuminating the filter with a low intensity broadband light and measuring the transmission as a function of wavelength. The plot shows that the transmission direction through the filter has very little effect on the intensity and the spectrum of the light transmitted through the filter. The minimal variation between the forward and backward traces is most likely due to a small shift in the incident angle of the light on the filter introduced when the filter was removed, flipped over, and replaced in the jig.



Previous-generation FB800-10 and FB800-40 filters were used to make the measurement that resulted in the plot above.

The filter is intended to be used with collimated light normally incident on the surface of the filter. For uncollimated light or light striking the surface at an angle not normally incident to the surface the central wavelength (wavelength corresponding to peak transmission) will shift toward lower wavelengths and the shape of the transmission region (passband) will change. Varying the angle of incidence by a small amount can be used to effectively tune the passband over a narrow range. Large changes in the incident angle will cause larger shifts in the central wavelength but will also significantly distort the shape of the passband and, more importantly, cause a significant decrease in the transmittance of the passband.

Filter Temperature

The central wavelength of the bandpass filter can be tuned slightly (~1 nm over the operating range of the filter) by changing the temperature of the filter. This is primarily due to the slight thermal expansion or contraction of the layers.

Item #	CWL ^a	FWHMb	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size
				-			
FB700-10	700 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB700-40	700 ± 8 nm	40 ± 8 nm	70%	200 - 1150 nm	0	N/A	Ø1"
FB710-10	710 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	1	N/A	Ø1"
FB720-10	720 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB730-10	730 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB740-10	740 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB750-10	750 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB750-40	750 ± 8 nm	40 ± 8 nm	70%	200 - 1150 nm	0	N/A	Ø1"
FB760-10	760 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB770-10	770 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB780-10	780 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FL05780-10	780 ± 2 nm	10 ± 2 nm	70%	200 - 1100 nm	0	Diode	Ø1/2"
FL780-10	780 ± 2 nm	10 ± 2 nm	70%	200 - 1150 nm	0	Diode	Ø1"
FB790-10	790 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	1	N/A	Ø1"

700 - 790 nm Bandpass Filters

a. Center Wavelength

b. Full Width Half Max

c. Minimum Transmission at Center Wavelength

d. <0.01% (<-40 dB)

Part Number	Description	Price	Availability
FB700-10	Ø1" Bandpass Filter, CWL = 700 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
-B700-40	Ø1" Bandpass Filter, CWL = 700 ± 8 nm, FWHM = 40 ± 8 nm	\$162.75	Today
FB710-10	Ø1" Bandpass Filter, CWL = 710 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
B720-10	Ø1" Bandpass Filter, CWL = 720 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
-B730-10	Ø1" Bandpass Filter, CWL = 730 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	7-10 Days
-B740-10	Ø1" Bandpass Filter, CWL = 740 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
B750-10	Ø1" Bandpass Filter, CWL = 750 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
B750-40	Ø1" Bandpass Filter, CWL = 750 ± 8 nm, FWHM = 40 ± 8 nm	\$162.75	Today
B760-10	Ø1" Bandpass Filter, CWL = 760 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
B770-10	Ø1" Bandpass Filter, CWL = 770 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
B780-10	Ø1" Bandpass Filter, CWL = 780 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
L05780-10	Ø1/2" Laser Line Filter, CWL = 780 ± 2 nm, FWHM = 10 ± 2 nm	\$68.25	Today
L780-10	Ø1" Laser Line Filter, CWL = 780 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
B790-10	Ø1" Bandpass Filter, CWL = 790 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Lead Time

810 - 890 nm Bandpass Filters

					Transmission/		
Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	OD Data ^e	Laser Line	Size
FB810-10	810 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB820-10	820 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB830-10	830 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FL830-10	830 ± 2 nm	10 ± 2 nm	70%	200 - 1150 nm	0	Diode	Ø1"
FB840-10	840 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB850-10	850 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FL05850-10	850 ± 2 nm	10 ± 2 nm	70%	200 - 1100 nm	0	Diode	Ø1/2"
FL850-10	850 ± 2 nm	10 ± 2 nm	70%	200 - 1150 nm	0	Diode	Ø1"
FB850-40	850 ± 8 nm	40 ± 8 nm	70%	200 - 1150 nm	0	N/A	Ø1"
FB860-10	860 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB870-10	870 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB880-10	880 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FL880-10	880 ± 2 nm	10 ± 2 nm	50%	200 - 1150 nm	0	Diode	Ø1"
FB880-40	880 ± 8 nm	40 ± 8 nm	70%	200 - 1150 nm	0	N/A	Ø1"
FB880-70	880 ± 8 nm	70 ± 8 nm	70%	200 - 1150 nm	0	N/A	Ø1"
FB890-10	890 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	1	N/A	Ø1"

a. Center Wavelength

b. Full Width Half Max

c. Minimum Transmission at Center Wavelength

d. <0.01% (<-40 dB)

FB810-10	Ø1" Bandpass Filter, CWL = 810 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB820-10	Ø1" Bandpass Filter, CWL = 820 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB830-10	Ø1" Bandpass Filter, CWL = 830 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FL830-10	Ø1" Laser Line Filter, CWL = 830 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB840-10	Ø1" Bandpass Filter, CWL = 840 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB850-10	Ø1" Bandpass Filter, CWL = 850 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FL05850-10	Ø1/2" Laser Line Filter, CWL = 850 ± 2 nm, FWHM = 10 ± 2 nm	\$68.25	Today
FL850-10	Ø1" Laser Line Filter, CWL = 850 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB850-40	Ø1" Bandpass Filter, CWL = 850 ± 8 nm, FWHM = 40 ± 8 nm	\$162.75	7-10 Days
FB860-10	Ø1" Bandpass Filter, CWL = 860 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB870-10	Ø1" Bandpass Filter, CWL = 870 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB880-10	Ø1" Bandpass Filter, CWL = 880 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FL880-10	Ø1" Laser Line Filter, CWL = 880 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB880-40	Ø1" Bandpass Filter, CWL = 880 ± 8 nm, FWHM = 40 ± 8 nm	\$162.75	Today
FB880-70	Ø1" Bandpass Filter, CWL = 880 ± 8 nm, FWHM = 70 ± 8 nm	\$162.75	Today
FB890-10	Ø1" Bandpass Filter, CWL = 890 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today

900 - 990 nm Bandpass Filters

Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size
item#	CVVL		1 (IVIIII)*	BIOCKINg	OD Dala ^s	Laser Line	Size
FB900-10	900 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	1	N/A	Ø1"
FB900-40	900 ± 8 nm	40 ± 8 nm	70%	200 - 1150 nm	0	N/A	Ø1"
FL905-10	905 ± 2 nm	10 ± 2 nm	70%	200 - 1150 nm	0	Diode	Ø1"
FL905-25	905 ± 5 nm	25 ± 5 nm	70%	200 - 1150 nm	0	Diode	Ø1"
FB910-10	910 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB920-10	920 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB930-10	930 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB950-10	950 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB960-10	960 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB970-10	970 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB980-10	980 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	0	N/A	Ø1"
FB990-10	990 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm	1	N/A	Ø1"

a. Center Wavelength

b. Full Width Half Max

c. Minimum Transmission at Center Wavelength

d. <0.01% (<-40 dB)

Part Number	Description	Price	Availability
FB900-10	Ø1" Bandpass Filter, CWL = 900 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB900-40	Ø1" Bandpass Filter, CWL = 900 ± 8 nm, FWHM = 40 ± 8 nm	\$162.75	Today
FL905-10	Ø1" Laser Line Filter, CWL = 905 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FL905-25	Ø1" Laser Line Filter, CWL = 905 ± 5 nm, FWHM = 25 ± 5 nm	\$162.75	Today
FB910-10	Ø1" Bandpass Filter, CWL = 910 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB920-10	Ø1" Bandpass Filter, CWL = 920 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today

FB930-10	Ø1" Bandpass Filter, CWL = 930 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	7-10 Days
FB950-10	Ø1" Bandpass Filter, CWL = 950 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB960-10	Ø1" Bandpass Filter, CWL = 960 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB970-10	Ø1" Bandpass Filter, CWL = 970 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB980-10	Ø1" Bandpass Filter, CWL = 980 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB990-10	Ø1" Bandpass Filter, CWL = 990 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today

1000 - 1250 nm Bandpass Filters

Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size
FB1000-10	1000 ± 2 nm	10 ± 2 nm	45%	200 - 3000 nm	0	N/A	Ø1"
FB1050-10	1050 ± 2 nm	10 ± 2 nm	45%	200 - 3000 nm	1	N/A	Ø1"
FL051064-3	1064 ± 0.6 nm	3 ± 0.6 nm	55%	200 - 1100 nm	1	Nd:YAG	Ø1/2"
FL1064-3	1064 ± 0.6 nm	3 ± 0.6 nm	45%	200 - 1150 nm	0	Nd:YAG	Ø1"
FB1070-10	1070 ± 2 nm	10 ± 2 nm	70%	200 - 1200 nm	0	N/A	Ø1"
FB1100-10	1100 ± 2 nm	10 ± 2 nm	40%	200 - 3000 nm	0	N/A	Ø1"
FB1150-10	1150 ± 2 nm	10 ± 2 nm	40%	200 - 3000 nm	0	N/A	Ø1"
FL1152-10	1152 ± 2 nm	10 ± 2 nm	45%	200 - 3000 nm	0	HeNe	Ø1"
FB1200-10	1200 ± 2 nm	10 ± 2 nm	40%	200 - 3000 nm	0	N/A	Ø1"
FB1250-10	1250 ± 2 nm	10 ± 2 nm	40%	200 - 3000 nm	0	N/A	Ø1"

a. Center Wavelength

b. Full Width Half Max

c. Minimum Transmission at Center Wavelength

d. <0.01% (<-40 dB)

Part Number	Description	Price	Availability
FB1000-10	Ø1" Bandpass Filter, CWL = 1000 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB1050-10	Ø1" Bandpass Filter, CWL = 1050 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FL051064-3	Ø1/2" Laser Line Filter, CWL = 1064 ± 0.6 nm, FWHM = 3 ± 0.6 nm	\$78.75	Today
FL1064-3	Ø1" Laser Line Filter, CWL = 1064 ± 0.6 nm, FWHM = 3 ± 0.6 nm	\$245.74	Today
FB1070-10	Customer Inspired! Ø1" Bandpass Filter, CWL = 1070 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB1100-10	Ø1" Bandpass Filter, CWL = 1100 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB1150-10	Ø1" Bandpass Filter, CWL = 1150 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FL1152-10	Ø1" Laser Line Filter, CWL = 1152 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB1200-10	Ø1" Bandpass Filter, CWL = 1200 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today
FB1250-10	Ø1" Bandpass Filter, CWL = 1250 ± 2 nm, FWHM = 10 ± 2 nm	\$162.75	Today

1300 - 1490 n	1300 - 1490 nm Bandpass Filters									
Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size			
FB1300-12	1300 ± 2.4 nm	12 ± 2.4 nm	40%	200 - 3000 nm	0	N/A	Ø1"			
FB1300-30	1300 ± 6 nm	30 ± 6 nm	40%	200 - 1850 nm	1	N/A	Ø1"			

FB1310-12	1310 ± 2 nm	12 ± 2.4 nm	40%	200 - 3000 nm	1	N/A	Ø1"
FB1320-12	1320 ± 2 nm	12 ± 2.4 nm	40%	200 - 3000 nm	0	N/A	Ø1"
FB1330-12	1330 ± 2 nm	12 ± 2.4 nm	40%	200 - 3000 nm	0	N/A	Ø1"
FB1340-12	1340 ± 2 nm	12 ± 2.4 nm	40%	200 - 3000 nm	0	N/A	Ø1"
FB1350-12	1350 ± 2.4 nm	12 ± 2.4 nm	35%	200 - 3000 nm	0	N/A	Ø1"
FB1400-12	1400 ± 2.4 nm	12 ± 2.4 nm	35%	200 - 3000 nm	0	N/A	Ø1"
FB1450-12	1450 ± 2.4 nm	12 ± 2.4 nm	35%	200 - 3000 nm	0	N/A	Ø1"
FB1480-12	1480 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm	1	N/A	Ø1"
FB1490-12	1490 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm	1	N/A	Ø1"

a. Center Wavelength

b. Full Width Half Max

c. Minimum Transmission at Center Wavelength

d. <0.01% (<-40 dB)

e. Click on 🕡 for a plot and downloadable data. Measured data accounts for all losses including Fresnel reflections. Please note that transmission is only guaranteed for the specified center wavelength and that the data in the plots is typical. Performance may vary from lot to lot.

Part Number	Description	Price	Availability
-B1300-12	Ø1" Bandpass Filter, CWL = 1300 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
B1300-30	Ø1" Bandpass Filter, CWL = 1300 ± 6 nm, FWHM = 30 ± 6 nm	\$105.40	7-10 Days
FB1310-12	Ø1" Bandpass Filter, CWL = 1310 ± 2 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1320-12	Ø1" Bandpass Filter, CWL = 1320 ± 2 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1330-12	Ø1" Bandpass Filter, CWL = 1330 ± 2 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
-B1340-12	Ø1" Bandpass Filter, CWL = 1340 ± 2 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
-B1350-12	Ø1" Bandpass Filter, CWL = 1350 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
-B1400-12	Ø1" Bandpass Filter, CWL = 1400 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
-B1450-12	Ø1" Bandpass Filter, CWL = 1450 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
-B1480-12	Ø1" Bandpass Filter, CWL = 1480 ± 2 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
-B1490-12	Ø1" Bandpass Filter, CWL = 1490 ± 2 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today

1500 - 1550 nm Bandpass Filters

Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size
FB1500-12	1500 ± 2.4 nm	12 ± 2.4 nm	35%	200 - 1850 nm	0	N/A	Ø1"
FB1510-12	1510 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm	1	N/A	Ø1"
FB1520-12	1520 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm	0	N/A	Ø1"
FB1530-12	1530 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm	0	N/A	Ø1"
FB1540-12	1540 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm	0	N/A	Ø1"
FB1550-30	1550 ± 6 nm	30 ± 6 nm	50%	200 - 1850 nm	0	Diode	Ø1"
FL051550-40	1550 ± 8 nm	40 ± 8 nm	45%	200 - 1850 nm	0	Diode	Ø1/2"
FB1550-40	1550 ± 8 nm	40 ± 8 nm	45%	200 - 1850 nm	0	Diode	Ø1"

a. Center Wavelength

b. Full Width Half Max

c. Minimum Transmission at Center Wavelength

d. <0.01% (<-40 dB)

Part Number	Description	Price	Availability
FB1500-12	Ø1" Bandpass Filter, CWL = 1500 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1510-12	Ø1" Bandpass Filter, CWL = 1510 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1520-12	Ø1" Bandpass Filter, CWL = 1520 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1530-12	Ø1" Bandpass Filter, CWL = 1530 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1540-12	Ø1" Bandpass Filter, CWL = 1540 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1550-30	Ø1" Bandpass Filter, CWL = 1550 ± 6 nm, FWHM = 30 ± 6 nm	\$162.75	Today
FL051550-40	Ø1/2" Laser Line Filter, CWL = 1550 ± 8 nm, FWHM = 40 ± 8 nm	\$68.25	Today
FB1550-40	Ø1" Bandpass Filter, CWL = 1550 ± 8 nm, FWHM = 40 ± 8 nm	\$162.75	Today

1560 - 1650 nm Bandpass Filters

Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size
FB1560-12	1560 ± 2 nm	12 ± 2.4 nm	50%	200 - 1850 nm	0	N/A	Ø1"
FB1570-12	1570 ± 2 nm	12 ± 2.4 nm	50%	200 - 1850 nm	0	N/A	Ø1"
FB1580-12	1580 ± 2 nm	12 ± 2.4 nm	50%	200 - 1850 nm	0	N/A	Ø1"
FB1590-12	1590 ± 2 nm	12 ± 2.4 nm	50%	200 - 1850 nm	0	N/A	Ø1"
FB1600-12	1600 ± 2.4 nm	12 ± 2.4 nm	50%	200 - 1850 nm	0	N/A	Ø1"
FB1610-12	1610 ± 2 nm	12 ± 2.4 nm	50%	200 - 1850 nm	0	N/A	Ø1"
FB1620-12	1620 ± 2 nm	12 ± 2.4 nm	50%	200 - 1850 nm	0	N/A	Ø1"
FB1650-12	1650 ± 2.4 nm	12 ± 2.4 nm	50%	200 - 1850 nm	0	N/A	Ø1"

a. Center Wavelength

b. Full Width Half Max

c. Minimum Transmission at Center Wavelength

d. <0.01% (<-40 dB)

Part Number	Description	Price	Availability
FB1560-12	Ø1" Bandpass Filter, CWL = 1560 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1570-12	Ø1" Bandpass Filter, CWL = 1570 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1580-12	Ø1" Bandpass Filter, CWL = 1580 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1590-12	Ø1" Bandpass Filter, CWL = 1590 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1600-12	Ø1" Bandpass Filter, CWL = 1600 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1610-12	Ø1" Bandpass Filter, CWL = 1610 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1620-12	Ø1" Bandpass Filter, CWL = 1620 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today
FB1650-12	Ø1" Bandpass Filter, CWL = 1650 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$162.75	Today



