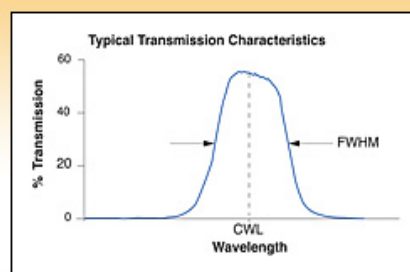


FB920-10 - December 28, 2023

Item # FB920-10 was discontinued on December 28, 2023. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

NIR SOFT-COATED BANDPASS FILTERS: 700 - 1610 NM CENTER WAVELENGTH

- ▶ Pass Regions Between 10 nm and 70 nm FWHM
- ▶ Ø1/2" and Ø1" Mounted Filters
- ▶ <0.01% Transmission in Blocking Region



FB720-10
(Ø1")



FL905-10
(Ø1")



FL05850-10
(Ø1/2")



Transmission Direction Indicator

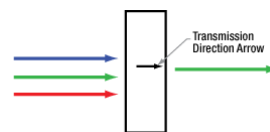
OVERVIEW

Features

- Central Wavelengths from 700 nm to 1610 nm
- 10, 12, 25, 40, or 70 nm Bandpass Regions
- Ø1/2" or Ø1" Mounted Filters
- Edge-Scribed for Superb Long-Term Stability
- Typical Transmission Plots Available for Every Filter
- Laser Line Filters for Popular Diode Laser Lines

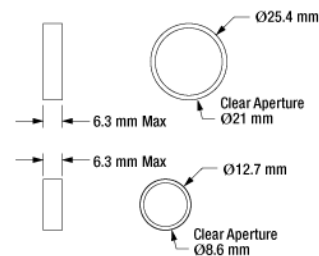


Click to Enlarge
Filter Mounted in a
TRF90 Flip Mount
Using a Retaining Ring



Please see the *Tutorial* tab for more information about the structure of the filter and the transmission direction arrow.

The bandpass and laser line filters shown on this page feature center wavelengths of 700 nm to 1610 nm. Transmission and optical density curves for individual filters are available by clicking on the blue info icon (i) 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.

These types of filters display very high transmission in the bandpass region, but the spectral range of blocked light on either side of the bandpass region is narrow. To compensate for this, an additional blocking component is added, which is either an all dielectric or a metal-dielectric depending on the requirements of the filter. Although this additional blocking component will eliminate any unwanted out-of-band radiation, it also reduces the filters' overall transmission throughput.

Please note: Please see our full selection of UV/VIS/NIR hard-coated bandpass filters for more options as well as for use in applications with demanding wavefront applications, such as imaging.

Each filter is housed in a black anodized aluminum ring that is labeled with an arrow indicating the design propagation direction. The ring makes handling easier and enhances the blocking OD by limiting scattering. These filters can be mounted in our extensive line of filter mounts and wheels. As the mounts are not threaded, retaining rings will be required to mount the filters in one of our internally-threaded lens tubes.

We do not recommend removing the filter from its mount, as the filter consists of several layers of glass that are held together with epoxy and the mounting ring. These glass layers are necessary to protect the dielectric coating from the atmosphere; exposure would significantly reduce the filter's transmission efficiency over time.

Our NIR Soft-Coated Bandpass Filters will be retired without replacement when stock is depleted. If you require this part for line production, please contact our OEM Team.

**Limited
STOCK**

Please note that due to the gradual breakdown of the dielectric coatings (primarily due to water vapor), our soft-coated bandpass filters have a typical lifetime of two years. Older filters will experience a decrease of overall transmission in the passband.

Additional Bandpass Filters

UV/VIS Hard-Coated Bandpass Filters 300 - 694 nm CWLs	NIR Hard-Coated Bandpass Filters 700 - 2000 nm CWLs	IR Bandpass Filters 1750 - 12000 nm CWLs	UV/Visible Soft-Coated Bandpass Filters 340 - 694.3 nm CWLs	NIR Soft-Coated Bandpass Filters 700 - 1610 nm CWLs	Bandpass Filter Kits
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We also offer custom bandpass filters with other central wavelengths or FWHM. To request a quote, contact Tech Sales.

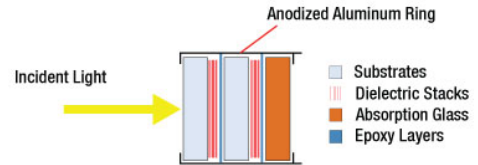
SPECS

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

Soft-Coated 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 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.



Click to Enlarge

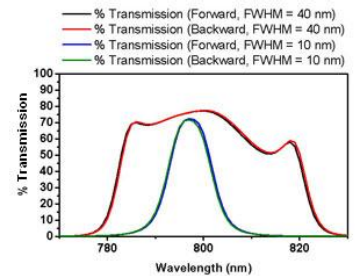
The number of layers shown in this schematic is not indicative of the number of layers in an actual bandpass filter. Also the drawing is not to scale.

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 to 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.

700 - 780 nm Soft-Coated Bandpass Filters


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

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
FB700-40	Ø1" Soft-Coated Bandpass Filter, CWL = 700 ± 8 nm, FWHM = 40 ± 8 nm	\$166.01	Today
FB710-10	Ø1" Soft-Coated Bandpass Filter, CWL = 710 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB720-10	Ø1" Soft-Coated Bandpass Filter, CWL = 720 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB740-10	Ø1" Soft-Coated Bandpass Filter, CWL = 740 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	7-10 Days
FB750-40	Ø1" Soft-Coated Bandpass Filter, CWL = 750 ± 8 nm, FWHM = 40 ± 8 nm	\$166.01	Today
FB760-10	Ø1" Soft-Coated Bandpass Filter, CWL = 760 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB770-10	Ø1" Soft-Coated Bandpass Filter, CWL = 770 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FL05780-10	Ø1/2" Soft-Coated Laser Line Filter, CWL = 780 ± 2 nm, FWHM = 10 ± 2 nm	\$69.62	Today

840 - 890 nm Soft-Coated Bandpass Filters


Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size
FB840-10	840 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FL05850-10	850 ± 2 nm	10 ± 2 nm	70%	200 - 1100 nm		Diode	Ø1/2"
FB860-10	860 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FB870-10	870 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FB880-10	880 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FL880-10	880 ± 2 nm	10 ± 2 nm	50%	200 - 1150 nm		Diode	Ø1"
FB880-40	880 ± 8 nm	40 ± 8 nm	70%	200 - 1150 nm		N/A	Ø1"
FB880-70	880 ± 8 nm	70 ± 8 nm	70%	200 - 1150 nm		N/A	Ø1"
FB890-10	890 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		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
FB840-10	Ø1" Soft-Coated Bandpass Filter, CWL = 840 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FL05850-10	Ø1/2" Soft-Coated Laser Line Filter, CWL = 850 ± 2 nm, FWHM = 10 ± 2 nm	\$69.62	Today
FB860-10	Ø1" Soft-Coated Bandpass Filter, CWL = 860 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB870-10	Ø1" Soft-Coated Bandpass Filter, CWL = 870 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB880-10	Ø1" Soft-Coated Bandpass Filter, CWL = 880 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FL880-10	Ø1" Soft-Coated Laser Line Filter, CWL = 880 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	7-10 Days
FB880-40	Ø1" Soft-Coated Bandpass Filter, CWL = 880 ± 8 nm, FWHM = 40 ± 8 nm	\$166.01	Today
FB880-70	Ø1" Soft-Coated Bandpass Filter, CWL = 880 ± 8 nm, FWHM = 70 ± 8 nm	\$166.01	Today
FB890-10	Ø1" Soft-Coated Bandpass Filter, CWL = 890 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today

900 - 990 nm Soft-Coated Bandpass Filters


Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size
FB900-40	900 ± 8 nm	40 ± 8 nm	70%	200 - 1150 nm		N/A	Ø1"
FL905-10	905 ± 2 nm	10 ± 2 nm	70%	200 - 1150 nm		Diode	Ø1"
FL905-25	905 ± 5 nm	25 ± 5 nm	70%	200 - 1150 nm		Diode	Ø1"
FB910-10	910 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FB920-10	920 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FB950-10	950 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FB960-10	960 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FB970-10	970 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		N/A	Ø1"
FB990-10	990 ± 2 nm	10 ± 2 nm	50%	200 - 1200 nm		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
FB900-40	Ø1" Soft-Coated Bandpass Filter, CWL = 900 ± 8 nm, FWHM = 40 ± 8 nm	\$166.01	Today
FL905-10	Ø1" Soft-Coated Laser Line Filter, CWL = 905 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FL905-25	Ø1" Soft-Coated Laser Line Filter, CWL = 905 ± 5 nm, FWHM = 25 ± 5 nm	\$166.01	Today
FB910-10	Ø1" Soft-Coated Bandpass Filter, CWL = 910 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB920-10	Ø1" Soft-Coated Bandpass Filter, CWL = 920 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB950-10	Ø1" Soft-Coated Bandpass Filter, CWL = 950 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB960-10	Ø1" Soft-Coated Bandpass Filter, CWL = 960 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	7-10 Days
FB970-10	Ø1" Soft-Coated Bandpass Filter, CWL = 970 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB990-10	Ø1" Soft-Coated Bandpass Filter, CWL = 990 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today

1000 - 1200 nm Soft-Coated 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		N/A	Ø1"
FB1100-10	1100 ± 2 nm	10 ± 2 nm	40%	200 - 3000 nm		N/A	Ø1"
FB1150-10	1150 ± 2 nm	10 ± 2 nm	40%	200 - 3000 nm		N/A	Ø1"
FL1152-10	1152 ± 2 nm	10 ± 2 nm	45%	200 - 3000 nm		HeNe	Ø1"
FB1200-10	1200 ± 2 nm	10 ± 2 nm	40%	200 - 3000 nm		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
FB1000-10	Ø1" Soft-Coated Bandpass Filter, CWL = 1000 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB1100-10	Ø1" Soft-Coated Bandpass Filter, CWL = 1100 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	7-10 Days
FB1150-10	Ø1" Soft-Coated Bandpass Filter, CWL = 1150 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FL1152-10	Ø1" Soft-Coated Laser Line Filter, CWL = 1152 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today
FB1200-10	Ø1" Soft-Coated Bandpass Filter, CWL = 1200 ± 2 nm, FWHM = 10 ± 2 nm	\$166.01	Today

1300 - 1480 nm Soft-Coated 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		N/A	Ø1"
FB1310-12	1310 ± 2 nm	12 ± 2.4 nm	40%	200 - 3000 nm		N/A	Ø1"
FB1320-12	1320 ± 2 nm	12 ± 2.4 nm	40%	200 - 3000 nm		N/A	Ø1"
FB1330-12	1330 ± 2 nm	12 ± 2.4 nm	40%	200 - 3000 nm		N/A	Ø1"
FB1340-12	1340 ± 2 nm	12 ± 2.4 nm	40%	200 - 3000 nm		N/A	Ø1"
FB1450-12	1450 ± 2.4 nm	12 ± 2.4 nm	35%	200 - 3000 nm		N/A	Ø1"
FB1480-12	1480 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm		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
FB1300-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1300 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1310-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1310 ± 2 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1320-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1320 ± 2 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1330-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1330 ± 2 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1340-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1340 ± 2 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1450-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1450 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1480-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1480 ± 2 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today

1510 - 1520 nm Soft-Coated Bandpass Filters


Item #	CWL ^a	FWHM ^b	T (Min) ^c	Blocking ^d	Transmission/ OD Data ^e	Laser Line	Size
FB1510-12	1510 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm		N/A	Ø1"
FB1520-12	1520 ± 2 nm	12 ± 2.4 nm	35%	200 - 3000 nm		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
FB1510-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1510 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1520-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1520 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today

1560 - 1610 nm Soft-Coated 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		N/A	Ø1"
FB1590-12	1590 ± 2 nm	12 ± 2.4 nm	50%	200 - 1850 nm		N/A	Ø1"
FB1600-12	1600 ± 2.4 nm	12 ± 2.4 nm	50%	200 - 1850 nm		N/A	Ø1"
FB1610-12	1610 ± 2 nm	12 ± 2.4 nm	50%	200 - 1850 nm		N/A	Ø1"

a. Center Wavelength

b. Full Width Half Max

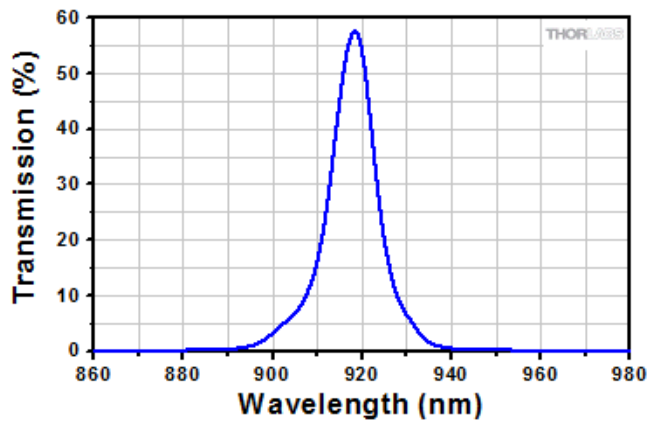
c. Minimum Transmission at Center Wavelength

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
FB1560-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1560 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1590-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1590 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1600-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1600 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today
FB1610-12	Ø1" Soft-Coated Bandpass Filter, CWL = 1610 ± 2.4 nm, FWHM = 12 ± 2.4 nm	\$166.01	Today

FB920-10 Transmission



FB920-10 Optical Density

