

Optics | FILTERS - UV TO NIR

	ULTRA-NARROW			STANDARD			MULTIPLE NOTCH		
Notch	Standard	Precision	Mfg limit	Standard	Precision	Mfg limit	Standard	Precision	Mfg limit
Transmission	>90%	>90%	>95%	>90%	>95%	>98%	>80%	>85%	>90%
#Blocking bands	1	1	1	1	1	1	2	3	4
Bandwidth	<4%	<3%	<2%	<6%	<5%	<2%	<6%	<4%	<3%
Blocking	5 OD	6 OD	7 OD	5 OD	6 OD	8 OD	4 OD	5 OD	6 OD
Bandpass									
Transmission	>90%	>90%	>95%	>90%	>95%	>98%	>90%	>95%	>98%
CWL tolerance	0.3%	0.2%	<0.1%	0.5%	0.2%	<0.1%	1.0%	0.5%	<0.1%
Bandwidth	<1%	<0.5%	<0.1%	NA	NA	NA	NA	NA	NA
Blocking	5 OD	6 OD	8 OD	5 OD	6 OD	8 OD	5 OD	6 OD	8 OD
Slope*	NA	NA	NA	3%	2%	<1%	3%	1.5%	<0.5%
Shape factor**	20%	25%	40%	20%	30%	50%	20%	40%	70%
	*slope =(0.3 OD point - 6 OD)/CWL			**shape factor =3 dB BW/ 6 OD BW					
Edge									
Transmission	>90%	>90%	>95%	>90%	>90%	>95%	>90%	>90%	>95%
Trans ripple*	10%	5%	2%	5%	2%	1%	10%	5%	2%
Slope**	5%	3%	1%	5%	1%	0.5%	5%	3%	1%
Blocking	4 OD	5 OD	6 OD	4 OD	6 OD	7 OD	2 OD	3 OD	4 OD
	*ripple is measured as standard deviation over the passband								
	**slope is measured from 0.3 OD to blocking band								

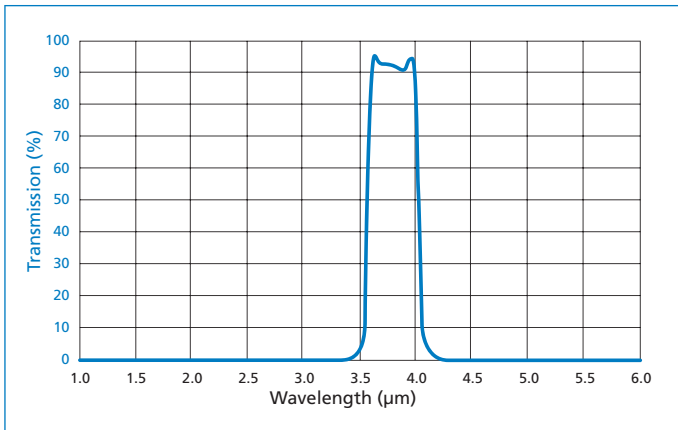


- High volume capacity
- High laser damage threshold
- High OD
- Ask us about our far IR capabilities
- Manufacturing dimensions from 3 mm to 50.8 mm
- For materials see pgs 6-7

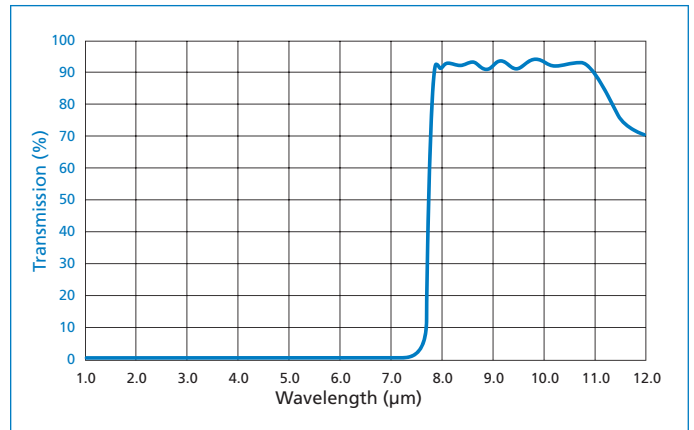
FILTERS - INFRARED | Optics

	2 - 6 μm		6 - 12 μm	
Wide Bandpass Long Wavepass Short Wavepass	Standard	Precision	Standard	Precision
Transmission*	90%	90%	90%	90%
Edge Slope	< 3%	< 2.5%	< 5%	< 3%
Edge Position	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	$\pm 2.5\%$
Blocking	OD 3	OD 3	OD 3	OD 3

* Transmission measurements can be made down to 77°K



Infrared Bandpass Filter



Infrared Long Wavepass Filter

IR Filter Applications

- IR Illuminators and Imagers
- Night Vision Sights
- Contrast enhancement
- Infrared Detectors
- Gas detection and analysis
- Manufacturing dimensions: 25.4 mm typical diameter
- For materials see pgs 6-7

