

Narrowband Interference Filters

- Precise **Laser Line Filters** are available for all popular lasers
- **Spectral Line Filters** allow isolation of all common prominent lines
- **Visible Range Filters** of 10nm and 40nm bandwidth are available every 50nm throughout the spectrum
- All **Narrowband Filters** are supplied in permanent metal rings with engraved wavelength

We offer three ranges of interference filters, laser line filters, spectral line filters and visible range filters. The laser line filters are intended for either isolation or simulation of laser lines. The major laser lines of interest are listed here but if you need a filter for a different laser type please call and we will be glad to supply you with a quote. Laser line filters are offered in three different bandwidths: 1nm, 3nm and 10nm.

The spectral line filters are intended for the isolation of individual lines from common spectral sources. They have a bandwidth of 10nm.

The visible range filters cover 50nm increments from 350 to 800 nm with bandwidths of either 10nm or 40nm. All interference filters are mounted in a metal ring and engraved with the center wavelength and bandwidth.

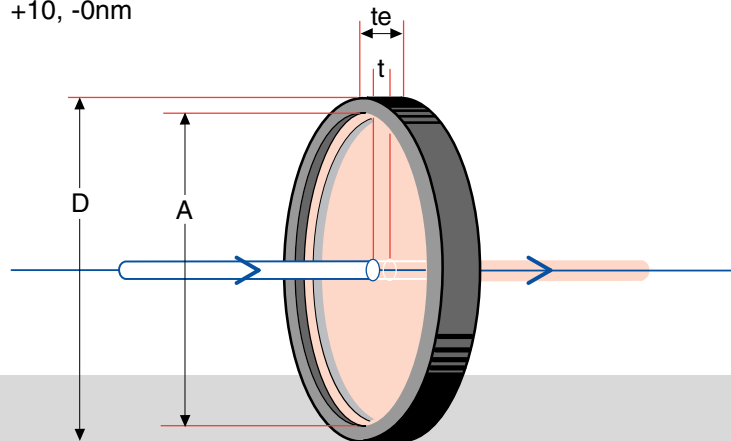


All interference filters are sensitive to the angle of incidence of the incoming beam. This can be a very useful attribute as it allows a certain amount of wavelength tuning to be done where appropriate. As a rule of thumb, all of our filters may be tilt-tuned toward the blue by about 10% of their center wavelength.

All our interference filters are supplied with an individual spectrophotometer trace.

Specifications & Tolerances

Diameter: 25mm+0, -0.25mm	Clear aperture: 21mm
Bandwidth: $\pm 20\%$	Thickness: $3.5\text{mm} < t < 8.5\text{mm}$
Surface quality: 80-50	Blocking: 1×10^{-4} X-ray to far-IR
Center wavelength:	Temperature range: -50 to +70°C (specified @ 23°C)
1nm: +0.2, -0nm	
3nm: +0.5, -0nm	
10nm: +3, -0nm	
40nm: +10, -0nm	



 NARROWBAND INTERFERENCE FILTER

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(949) 851-5881
FAX (949) 851-5058
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WEB
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Laser Line Interference Filters

Laser Type	Wavelength (nm)	Bandwidth (nm)	Minimum Transmittance (%)	Price	PART NUMBER
N ₂	337.1	3.0	20.0		079-0440
N ₂	337.1	10.0	25.0		079-0450
YAG(3)	355.0	10.0	25.0		079-0490
HeCd	441.6	1.0	30.0		079-0660
HeCd	441.6	3.0	35.0		079-0670
HeCd	441.6	10.0	45.0		079-0680
Ar Ion	457.9	1.0	30.0		079-0790
Ar Ion	457.9	3.0	35.0		079-0880
Ar Ion	457.9	10.0	45.0		079-0890
Ar Ion	488.0	1.0	40.0		079-1110
Ar Ion	488.0	3.0	45.0		079-1120
Ar Ion	488.0	10.0	50.0		079-1130
Ar Ion	514.5	1.0	40.0		079-1170
Ar Ion	514.5	3.0	45.0		079-1180
Ar Ion	514.5	10.0	50.0		079-1190
YAG(2)	532.0	1.0	40.0		079-1220
YAG(2)	532.0	3.0	45.0		079-1230
YAG(2)	532.0	10.0	50.0		079-1240
HeNe	632.8	1.0	40.0		079-1360
HeNe	632.8	3.0	45.0		079-1370
HeNe	632.8	10.0	50.0		079-1380
Kr	647.1	3.0	45.0		079-1440
Kr	647.1	10.0	50.0		079-1450
Diode	670.0	10.0	50.0		079-1490
Ruby	694.3	10.0	50.0		079-1560
Diode	780.0	10.0	45.0		079-1680
Diode	810.0	10.0	45.0		079-1880
Diode	830.0	10.0	45.0		079-2230
YAG	1064.0	1.0	30.0		079-2390
YAG	1064.0	3.0	35.0		079-2440
YAG	1064.0	10.0	40.0		079-2450
Diode	1300.0	10.0	35.0		079-2460
Diode	1500.0	10.0	30.0		079-2480
Diode	1550.0	10.0	30.0		079-2550

Spherical Lenses

Cylindrical Lenses

Lens Kits

Achromatic Doublets

Multi-Element

Micro Optics

Mirrors

Prisms

Substrates & Windows

Beamsplitters

Polarizers

Filter & Apertures

If you need a filter for a different laser line please call us.

Spectral Line Interference Filters

Spectral Line	Wavelength (nm)	Bandwidth (nm)	Minimum Transmittance (%)	Price	PART NUMBER
Zn	214.0	10.0	12.0		079-0230
Cd	228.0	10.0	15.0		079-0240
Ni	232.0	10.0	15.0		079-0250
Co	239.0	10.0	15.0		079-0260
Hg	253.7	10.0	12.0		079-0270
Hg	265.0	10.0	12.0		079-0280
Hg	280.0	10.0	12.0		079-0290
Hg	289.0	10.0	15.0		079-0330
Hg	296.7	10.0	15.0		079-0340
Zn	307.1	10.0	15.0		079-0360
Hg	313.0	10.0	15.0		079-0370

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Spectral Line Interference Filters (continued)

Spectral Line	Wavelength (nm)	Bandwidth (nm)	Minimum Transmittance (%)	Price	PART NUMBER
Cd	326.0	10.0	25.0		079-0380
Hg	334.0	10.0	25.0		079-0390
Hg	365.0	10.0	25.0		079-0550
Hg	404.7	10.0	40.0		079-0580
Hg	435.8	10.0	40.0		079-0590
Cs	455.5	10.0	45.0		079-0780
H	486.1	10.0	45.0		079-0990
Cd	508.5	10.0	50.0		079-1160
Ti	535.0	10.0	50.0		079-1250
Hg	546.1	10.0	50.0		079-1260
Hg	577.0	10.0	50.0		079-1290
Na	589.3	10.0	50.0		079-1330
Zn	636.2	10.0	50.0		079-1390
H alpha	656.3	10.0	50.0		079-1480
K	766.5	10.0	45.0		079-1670
Rb	794.7	10.0	45.0		079-1770
GaAs	905.0	10.0	45.0		079-2330
Hg	1014.0	10.0	40.0		079-2380

Visible and Near IR Range Interference Filters

Wavelength (nm)	Bandwidth (nm)	Minimum Transmittance (%)	Price	PART NUMBER
300.0	10.0	15.0		079-0350
350.0	10.0	25.0		079-0470
350.0	40.0	25.0		079-0480
400.0	10.0	40.0		079-0560
400.0	40.0	40.0		079-0570
450.0	10.0	45.0		079-0690
450.0	40.0	50.0		079-0770
500.0	10.0	50.0		079-1140
500.0	40.0	50.0		079-1150
550.0	10.0	50.0		079-1270
550.0	40.0	50.0		079-1280
600.0	10.0	50.0		079-1340
600.0	40.0	50.0		079-1350
650.0	10.0	50.0		079-1460
650.0	40.0	50.0		079-1470
700.0	10.0	50.0		079-1570
700.0	40.0	50.0		079-1580
750.0	10.0	45.0		079-1590
750.0	40.0	40.0		079-1660
800.0	10.0	45.0		079-1780
800.0	40.0	45.0		079-1790
850.0	10.0	45.0		079-2250
850.0	40.0	45.0		079-2260
900.0	10.0	45.0		079-2270
900.0	40.0	45.0		079-2280
950.0	10.0	45.0		079-2340
950.0	40.0	40.0		079-2350
1000.0	10.0	40.0		079-2360
1000.0	40.0	40.0		079-2370

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