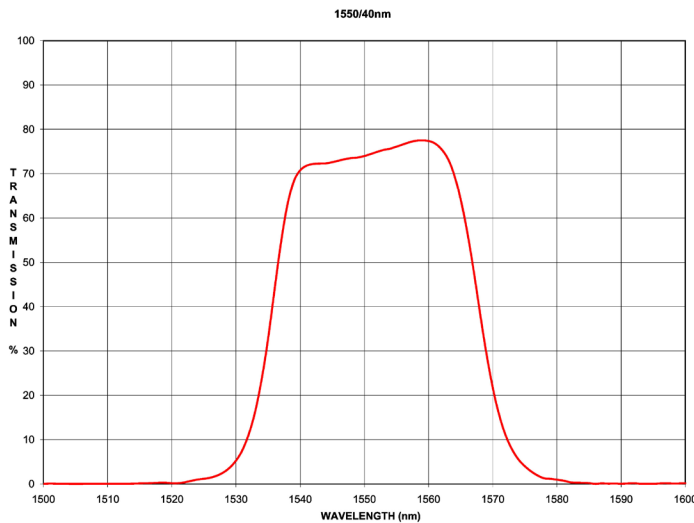




Laser Line Filters



While lasers are generally assumed to emit monochromatic light, there is often unwanted radiation that the user wishes to eliminate and Optometrics' Laser Line filters are designed for this purpose. Standard filters are manufactured for use with YAG, HeCd, Argon, HeNe, Krypton, Ruby and Diode lasers and are available in 12.7 mm and 25.4 mm diameter sizes. All are mounted in a black anodized metal ring.



General Specifications

Central wavelength tolerance.....	Varies by wavelength
Half bandwidth	Tolerance
3 nm	± 0.6 nm
10 nm	± 2 nm
12 nm	± 2.4 nm
25 nm	± 5 nm
30 nm	± 6 nm
40 nm	± 8 nm
70 nm	± 8 nm

Blocking Range ≥OD4

For central wavelength ranges	Blocking range
350-355 nm.....	Xray-FIR
441.6-905 nm	UV-1150 nm
1064-1550 nm.....	Xray-FIR

Transmission

Varies.....By wavelength and half bandwidth (see overleaf)

Standard Sizes

Mounted diameters.....	12.7 mm & 25.4 mm
Tolerance	(±0.25 mm)
Thickness.....	9.65 mm (±0.15 mm)

Clear Aperture

12.7 mm diameter.....	8.5 mm
25.4 mm diameter.....	20.0 mm

Optometrics' complete line of interference filters include:

- Edge Filters (Short Pass and Long Pass)
- Narrow and Broadband Bandpass Filters from 340 nm to 1650 nm
- Laser Line Filters

Optometrics' complete line of hard-coated durable coatings and filters using Ion-Assist Deposition (IAD) techniques include:

- Interference filters
- Dichroic filters
- Laser safety eyewear coatings on curved surfaces

Laser Line Filters

Laser Line	CWL (nm)	CWL tol.	HBW (nm)	Tx (min)	12.7 mm diameter	25.4 mm diameter
XeF	350	± 2	10	25	2-3507	2-3508
Nd:YAG	355	± 2	10	25	2-3557	2-3558
HeCd	441.6	± 2	10	60	2-4417	2-4418
Argon	457.9	± 2	10	65	2-4577	2-4578
Argon	460	± 2	10	65	2-4607	2-4608
Argon	488	± 0.6	3	45	2-4887	2-4888
Argon	488	± 2	10	65	2-4897	2-4898
Argon	508.5	± 2	10	65	2-5087	2-5088
Argon	514.5	± 0.6	3	55	2-5147	2-5148
Argon	514.5	± 2	10	65	2-5157	2-5158
Argon	532	± 0.6	3	60	2-5327	2-5328
Nd:YAG	532	± 2	10	70	2-5337	2-5338
HeNe	543.5	± 2	10	70	2-5437	2-5438
HeNe	632.8	± 0.6	3	65	2-6327	2-6328
HeNe	632.8	± 2	10	70	2-6337	2-6338
Diode	635	± 2	10	70	2-6357	2-6358
Krypton	647.1	± 2	10	70	2-6477	2-6478
Diode	670	± 2	10	70	2-6707	2-6708
Ruby	694.3	± 2	10	70	2-6947	2-6948
Diode	730	± 2	10	70	2-7307	2-7308
Diode	780	± 2	10	70	2-7807	2-7808
Diode	830	± 2	10	70	2-8307	2-8308
Diode	850	± 2	10	70	2-8507	2-8508
Diode	880	± 2	10	70	2-8807	2-8808
Diode	880	± 8	40	70	2-8817	2-8818
Diode	880	± 10	70	70	2-8827	2-8828
Diode	905	± 2	10	70	2-9057	2-9058
Diode	905	± 5	25	70	2-9067	2-9068
Nd:YAG	1064	± 0.6	3	55	2-1067	2-1068
Nd:YAG	1064	± 2	10	70	2-1077	2-1078
HeNe	1152	± 2	10	45	2-1157	2-1158
Diode	1300	± 6	30	45	2-1317	2-1308
Diode	1550	± 2.4	12	40	2-1557	2-1558
Diode	1550	± 6	30	45	2-1567	2-1568
Diode	1550	± 8	40	45	2-1577	2-1578