



# NIR **NEW** Bandpass Filters

Now, select from our expanded range of filters which extends to 1650 nm. Customers may choose filters from 334-1650 nm in two different standard sizes or contact us for an OEM quotation.

For filters in the range of 334-1064nm, please see our Interference Filter Catalog ([www.optometrics.com/literature\\_catalogs.html](http://www.optometrics.com/literature_catalogs.html)). Our newest NIR wavelength filters are all ring mounted, have blocking to OD4 over a broad range and transmit from 65-75%. They should be considered for applications that require a limited number of known wavelengths, when energy throughput is more critical than wavelength resolution or when cost is more important than flexibility.



## General Specifications

Central wavelength tolerance.....	Varies by wavelength
Half bandwidth	Tolerance
10 nm bandwidth.....	± 2 nm
12 nm bandwidth.....	± 2.4 nm
30 nm bandwidth.....	± 6 nm
40 nm bandwidth.....	± 8 nm

## Blocking Range ≥ OD4

For central wavelength ranges	Blocking range
1000 -1100 nm .....	200 -1200 nm
1150 -1200 nm .....	200 -1350 nm
1250 -1350 nm .....	200 -1500 nm
1400 -1650 nm .....	200 -1850 nm

## 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)

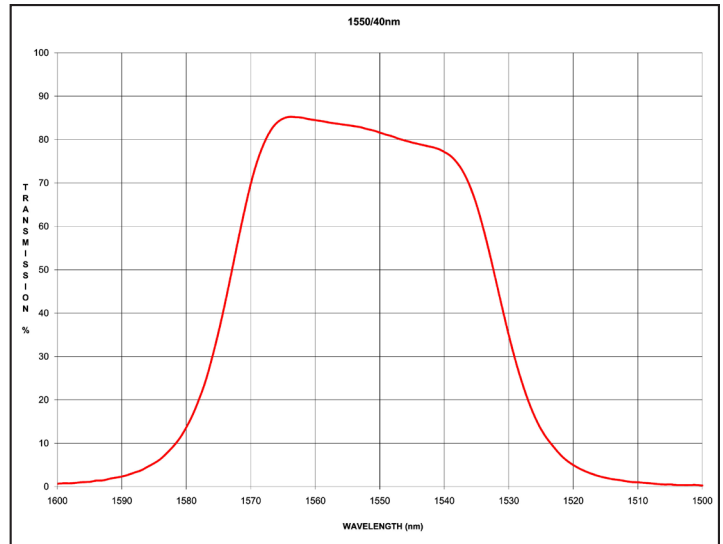
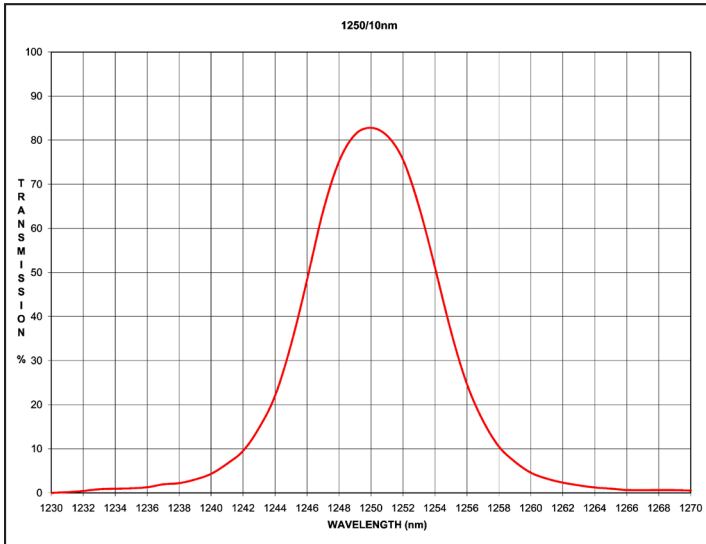
## Clear Aperture

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

**Mounting** .....Black anodized metal ring

**Thickness** .....9.65 mm ± 0.15 mm

### Typical Transmission Curves



### NIR Filters (1000-1650 nm)

CWL (nm)	CWL TOL. (nm)	HBW (nm)	Tx % (min)	12.7 mm DIA.	25.4 mm DIA.
1000	± 2	10	70	2-1004	2-1005
1050	± 2	10	70	2-1054	2-1055
1100	± 2	10	70	2-1104	2-1105
1150	+ 4, - 0	10	70	2-1154	2-1155
1200	± 2	10	70	2-1214	2-1215
1250	± 2	10	70	2-1264	2-1265
1300	± 2.4	12	70	2-1314	2-1315
1300	± 6	30	75	2-1324	2-1325
1350	± 2.4	12	70	2-1364	2-1365
1400	± 2.4	12	70	2-1404	2-1405
1450	± 2.4	12	70	2-1454	2-1455
1500	± 2.4	12	70	2-1504	2-1505
1550	± 2.4	12	70	2-1554	2-1555
1550	± 6	30	75	2-1564	2-1565
1550	± 8	40	75	2-1574	2-1575
1600	± 2.4	12	65	2-1604	2-1605
1650	± 2.4	12	65	2-1654	2-1655

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