

[About](#)[Coatings](#)[Services](#)[Tutorials](#)[News & Events](#)[Contact](#)[Anti-Reflection](#)[Beam Splitters](#)[Heat Control](#)[Mirror Coatings](#)[Metal Coatings](#)[Optical Filters](#)[Protective Coatings](#)[ITO](#)

Optical Filters

NTFL manufactures a wide range of optical filter for multiple needs:

[About](#)[Coatings](#)[Services](#)[Tutorials](#)[News & Events](#)[Contact](#)

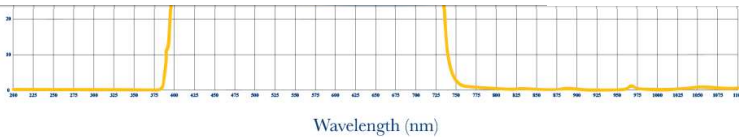
Dichroic ND filters are constructed similarly to metallic ND filters, but the coating consists of an absorbing oxide coating. The advantage of dichroic ND filters is lower reflectance from the coated surface and improved thermal and mechanical durability. This is especially important if ND filters are used in series.

Neutral density filters are typically specified as either the desired transmittance or optical density for a given wavelength region. The chart below:

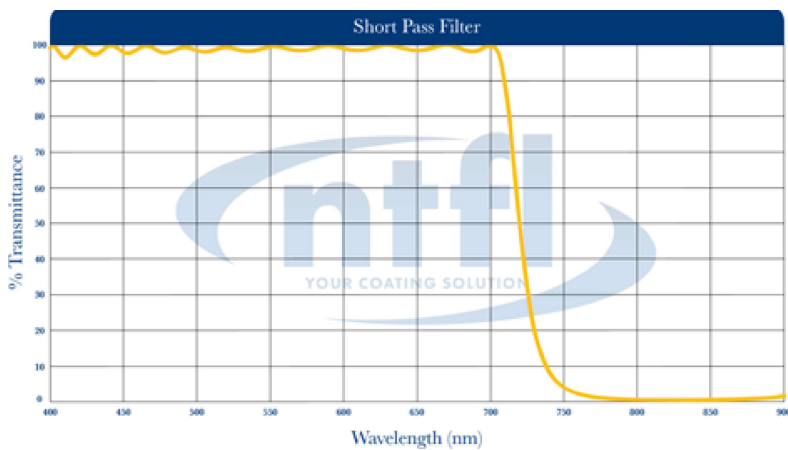
Optical Density	Transmittance
0.1	79.4
0.3	50.1
0.6	25.1
1.0	10.0
2.0	1.0
3.0	0.1
4.0	0.01

Dielectric filters are constructed of inorganic oxide layers and transmit or reflect restricted ranges of energy. Band pass filters such as long/short pass filters and notch filters are common types of dielectric filters. Dielectric filters can be manufactured for UV, visible and infrared applications.

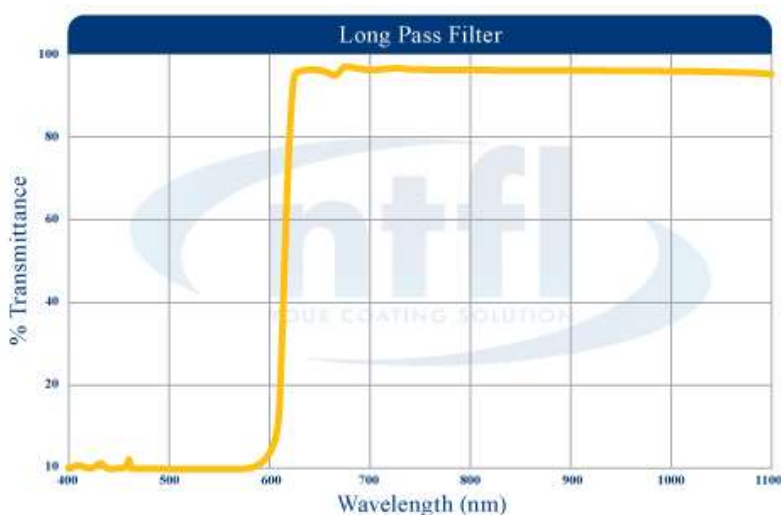
Band pass filters are typically constructed of a clear or absorptive filter glass coated with a dielectric multi-layer coating that rejects energy outside of the pass band. Short pass filters pass regions that are shorter in wavelength (higher in energy) than the blocking (or stop) band. Long pass filters pass regions

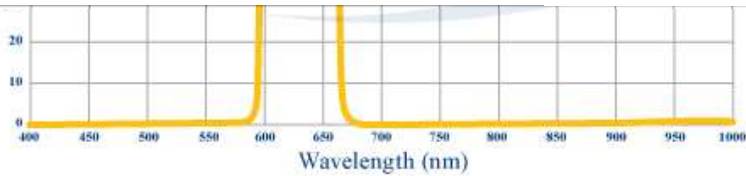
[About](#)[Coatings](#)[Services](#)[Tutorials](#)[News & Events](#)[Contact](#)

Short pass filters pass regions that are shorter in wavelength (higher in energy) than the blocking band. Short pass filters often employ absorptive filter glass, since region blocked by reflectance is limited in bandwidth by the interference of the harmonics of the blocking band with the desired pass band.



Long pass filters pass regions that are longer in wavelength (lower in energy) than the blocking band.



[About](#)[Coatings](#)[Services](#)[Tutorials](#)[News & Events](#)[Contact](#)

Please [contact us](#) with your specific requirements.

*** (Available in the ultraviolet, visible and infrared) – Custom options available.*

[REQUEST A QUOTE](#)

Interested in discussing your next project?

[CONTACT US](#)[– REGISTRATIONS –](#)[LATEST TWEETS](#)[QUICK LINKS](#)[CONTACT INFO](#)

NTFL offers a wide variety of Optical

About Newport Thin Film Laboratory (NTFL)

Optical Thin Film Coatings



13824 Magnolia Avenue Chino, CA 91710



[About](#) [Coatings](#) [Services](#) [Tutorials](#)



[News & Events](#) [Contact](#)