

BANDPASS FILTERS

FILTER DESIGN

StabLEDGE®

Bandpass

BP

BN

Bi

BANDPASS FILTERS

All MidOpt Bandpass filters are double-sided polished for exceptional parallelism and optical flatness. BP and BN series filters are designed with StabLEDGE® technology, which offers superior out-of-band blocking, reduces angular dependency and minimizes the effects of short-shifting.

BP SERIES Broad Bandwidth

- 60+nm FWHM*; Peak Transmission $\geq 90\%$
- StabLEDGE design with a broad, Gaussian passband to mimic and accommodate the entire output of the most common LED lighting wavelengths

BN SERIES Narrow Bandwidth

- 45-55nm FWHM*; Peak transmission $\geq 85\%$
- StabLEDGE design for use with laser diodes and LEDs in applications with overwhelming ambient light

APPLICATIONS: BP and BN Series Filters are used in a variety of industries, including machine vision, factory automation, security and surveillance, license plate recognition, medical and life sciences, agricultural inspection, aerial imaging, motion analysis, photography and cinematography. Test the effects of monochromatic illumination with a BandPass Filter Kit. **See page 34**

Bi SERIES Narrow Interference Bandwidth

- 20-35nm FWHM*; Peak transmission $\geq 85\%$
- StabLEDGE design for use with laser diodes
- Ideal wavelength separation when multiple light sources of similar wavelengths are present
- Reflective, mirror-like surface that helps minimize adverse thermal effects

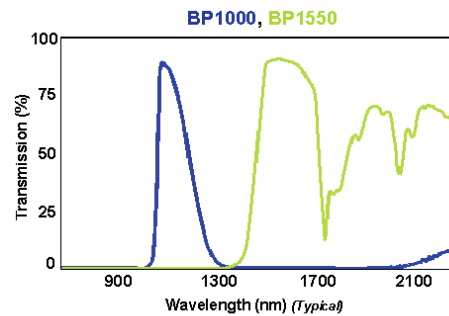
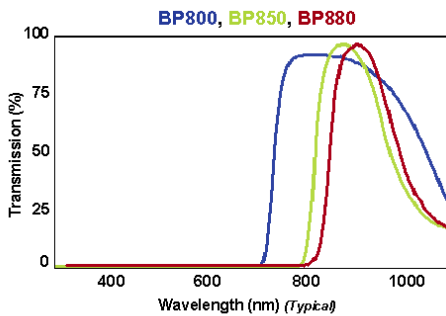
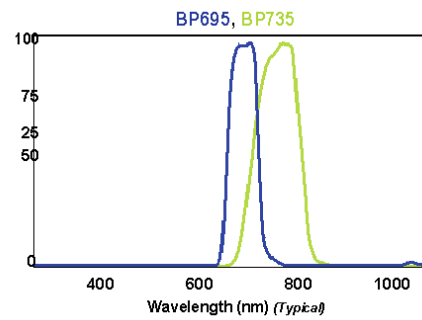
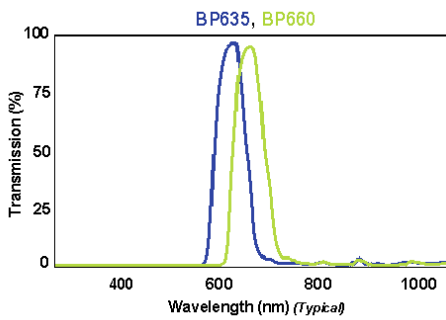
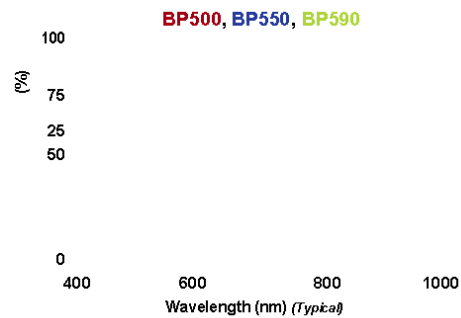
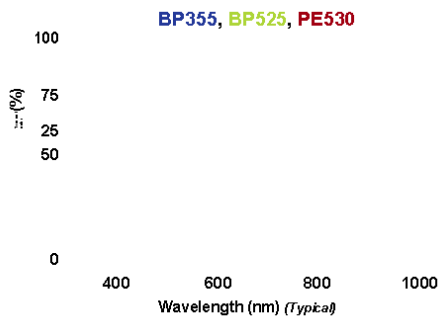
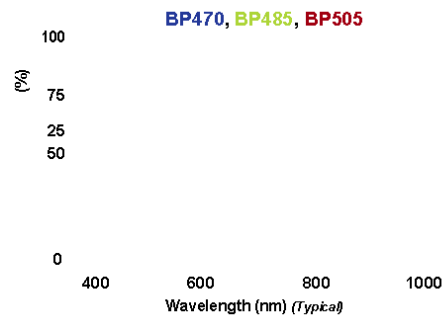
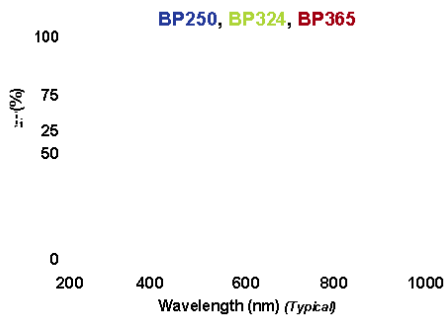
APPLICATIONS: Bi Series are popular for life science and laser analysis applications where only discrete wavelengths need to be passed to maximize system performance.

**Applies in most cases*

For more information, visit midopt.com/bandpass

FILTERS & TRANSMISSION CURVES

BP SERIES: BROAD BANDWIDTH



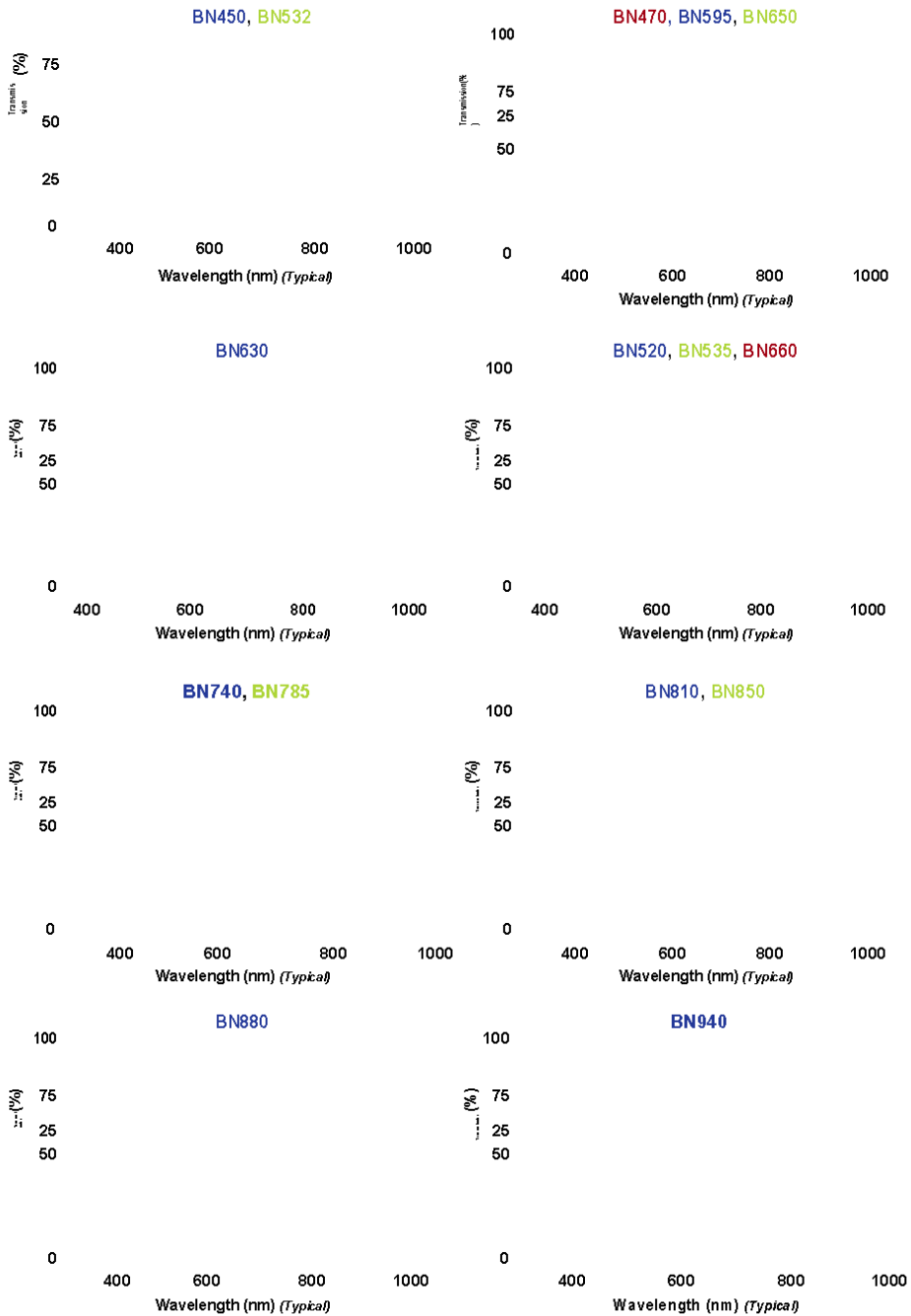
Bandpass

BP

FILTERS & TRANSMISSION CURVES

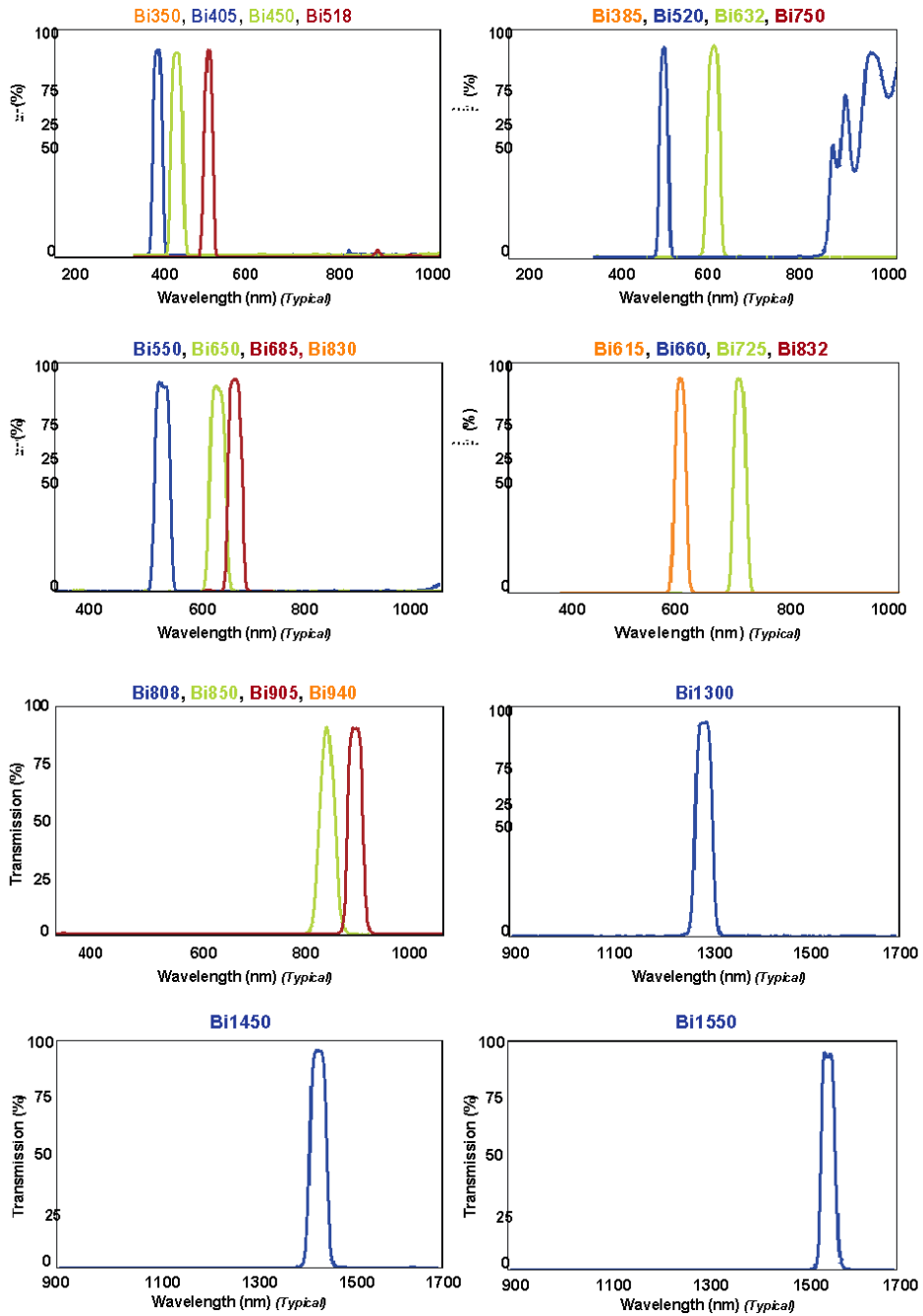
BN SERIES: NARROW BANDWIDTH

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Bi SERIES: NARROW INTERFERENCE



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