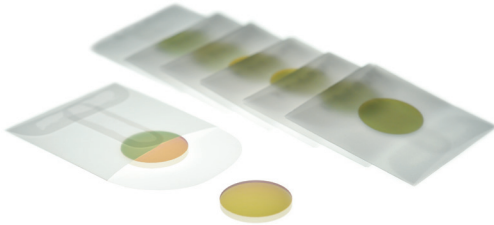




# FLAT-TOP NARROW BANDPASS FILTERS

CELEBRATING 50 YEARS ISO 9001:2008 CERTIFIED • SBA REGISTERED SMALL BUSINESS • ITAR REGISTERED • MADE IN THE USA



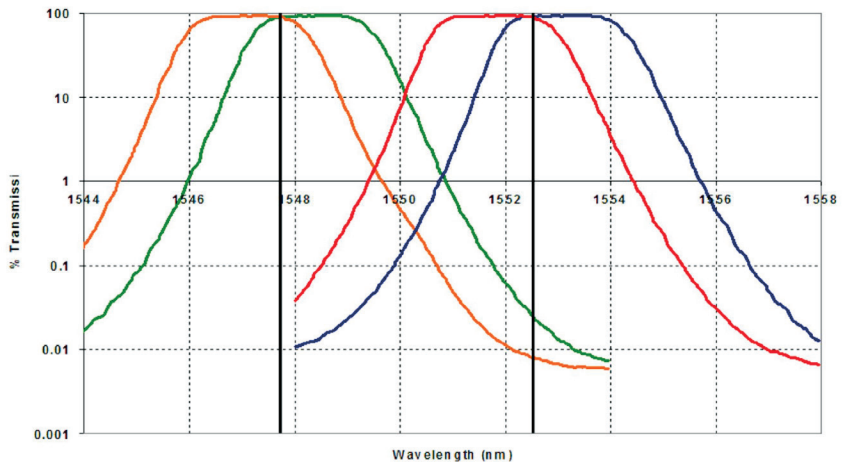
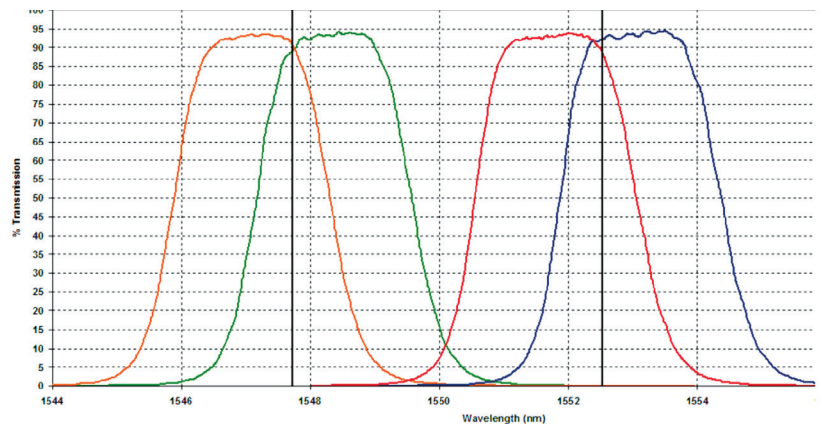
## KEY FEATURES:

- Spectral stability over temperature range of -60 to +80° C
- Flat transmission peak and sharp transition to deep blocking
- High (>90%) Transmission
- Broad out-of-band rejection
- Narrow bandwidths from 1 to 5 nm
- Reduced spectral shift with AOI
- Custom wavelengths available (UV-NIR)
- Custom sizes available
- High physical durability
- Spectral characterization over angle and temperature

## APPLICATIONS:

- Lidar
- Freespace Optical Communications
- Laser Cleanup
- Range-Finding
- Autonomous Vehicle Applications
- Remote Sensing
- Chemical/Gas Sensing

Responding to increased demand for flat-top narrowbands for laser applications, Omega is pleased to announce our latest 4-cavity Fabry-Perot narrowband filters for demanding LIDAR and optical communications applications. These filters are fabricated from hard oxide materials and are designed to minimize wavelength shifts due to temperature and angle-of-incidence variations.



Transmission of 2 filters measured at 0° (Blue/Green) and 5° (Red/Orange) angle of incidence (AOI) using a scanning wavelength laser. The black lines locate the target C-band laser lines ITU 31 (1547.7 nm) and ITU 37 (1552.3nm). Top is linear scale to show the high transmission, Bottom is log scale to show blocking.