MATERION

Ultra-Narrow
Bandpass Filters

**BARR PRECISION OPTICS
& THIN FILM COATINGS**

# Ultra-Narrow Bandpass Filters

Materion offers bandpass filters with bandwidth at Full Width Half Maximum (FWHM) selectable from Wideband to Ultra-Narrow-band, manufactured to customer requirements. Where the requirement is for bandpass filters with Ultra-Narrow Bandwidth, Materion can produce such filters for use in the ultraviolet, visible, and infrared spectral regions.

Applications:

- Plasma Spectroscopy
- Nuclear Fusion Plasma Diagnostics
- Atmospheric Plasma Diagnostics
- Solar and Stellar Astronomy
- Lidar, Raman Lidar, Differential Absorption Lidar (DIAL)
- ASE Suppression
- Deep-Space Optical Telecommunications

Available Features:

- Choice of Center Wavelength (CWL) in the UV, Visible, or IR spectral regions
- Choice of bandwidth
- User-specified wavelength range for blocking
- Deep Blocking Density (OD 6) within blocking wavelength range
- Low thermal coefficient which results in thermal spectral stability of CWL
- High in-band transmission with effective out-of-band rejection
- Durable environmental durability characteristics
- Image quality available

CWL: 1064.05nm,

CWL: 4.708 microns,
BW: 0.050 microns
(Blocked 0.2 to 5.6 microns)
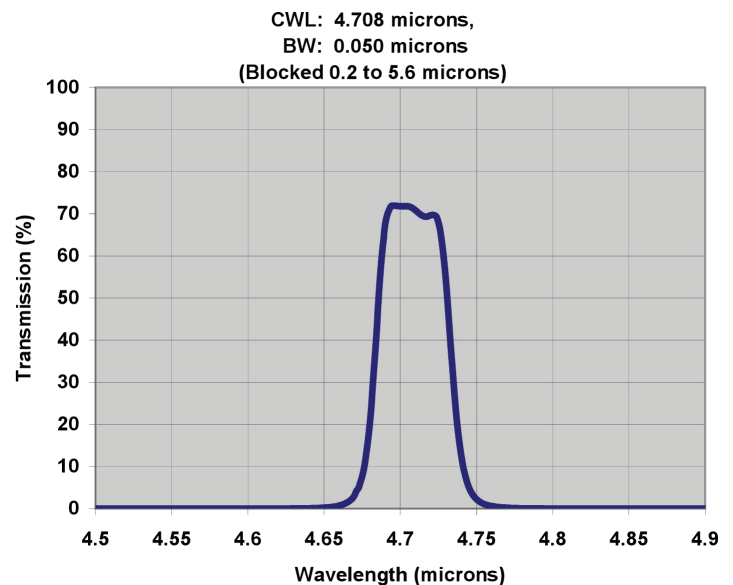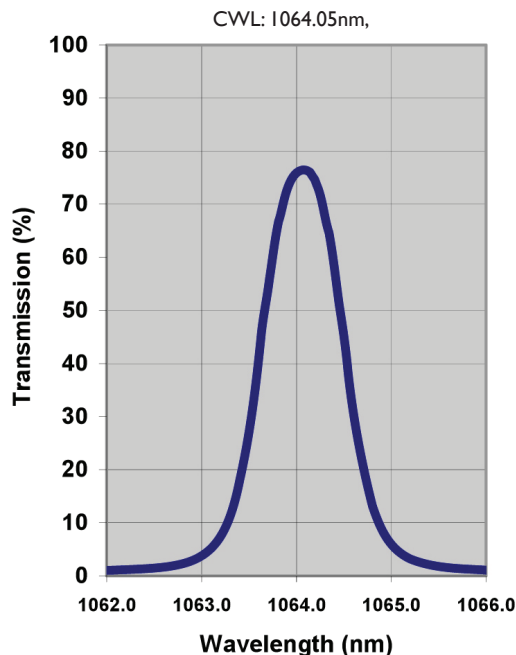
Materion is a global advanced materials company, dedicated to providing solutions that enable our customers' technologies and drive their growth. Our products include precious and non-precious specialty metals, precision optical filters, inorganic chemicals and powders, specialty coatings, specialty-engineered beryllium alloys, beryllium and beryllium composites, and engineered clad and plated metal systems. The Materion business is structured to enhance our ability to provide customers with innovative, best total-cost solutions.