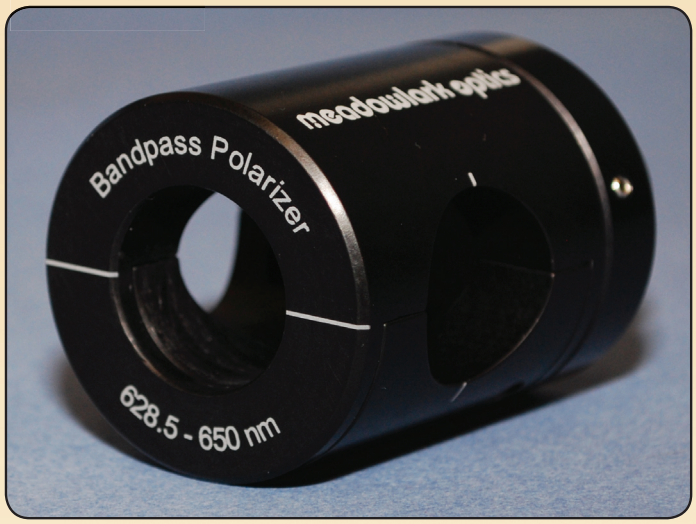
NEW

Bandpass Polarizer



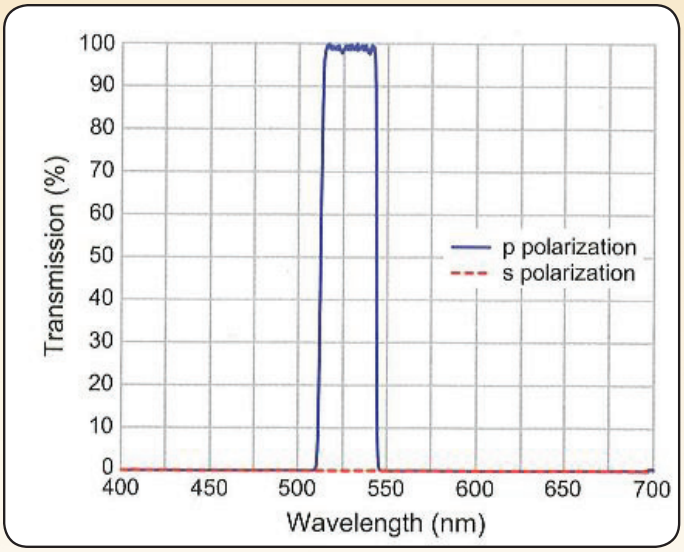
Key Benefits

- **Transmission of greater than 95%**
- **Contrast Ratio on the order of 1,000,000 to 1**
- **Blocks all light outside the wavelength range**

Meadowlark Optics is pleased to present its new bandpass polarizer. Manufactured by depositing the filter coating on fused silica, this polarizer works well in situations for when the user only wants a small wavelength range to pass through with a specific polarization.

Bandpass polarizers are reflective, reflecting away the undesired polarization. This allows bandpass polarizers to be used in a mount that makes them a beamsplitting polarizer and increases the recommended safe operating limit to levels required for use with high powered laser. Bandpass polarizers have a high transmission of over 95% and an excellent contrast ratio of over 1 million to 1 with excellent out of band blocking of OD 6 and have the required optical specifications for quality optical imaging.

For any additional questions, please visit our website or contact your Meadowlark Optics Sales Engineer for assistance.



Transmission versus Wavelength graph over the usable wavelength range for the 532 nm version of the bandpass polarizer.

ORDERING INFORMATION	
Diameter (in.)	*Part Number*
1.70	PFM - 170 - λ

SPECIFICATIONS	
Substrate Material	Fused Silica
Standard Wavelengths	405, 532, 640 nm
Wavelength Ranges	405: 400 - 410 nm 532: 518 - 541 nm 640: 629 - 650 nm
Transmitted Wavefront Distortion (at 632.8 nm)	≤ λ/2
Surface Quality	40 - 20 scratch and dig
Beam Deviation	≤ 10 arc sec
Acceptance Angle	45.0° ± 0.5°
Clear Aperture	Central 21 mm diameter
Recommended Safe Operating Limit	1 J /cm², 532 nm

Bandpass Polarizer Applications

Bandpass polarizers are being used in a diverse range of applications including:

- **Laser source clean up filters**
- **Holography**
- **Interferometry**
- **Fluorescence imaging**
- **Polarization diversity detection**
- **Laser material processing**

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