



Optics Leading the Light

RONAR-SMITH® Laser Optics & IR Lens



IR Filter

IR Narrow Bandpass Filter

Substrate Material: Sapphire

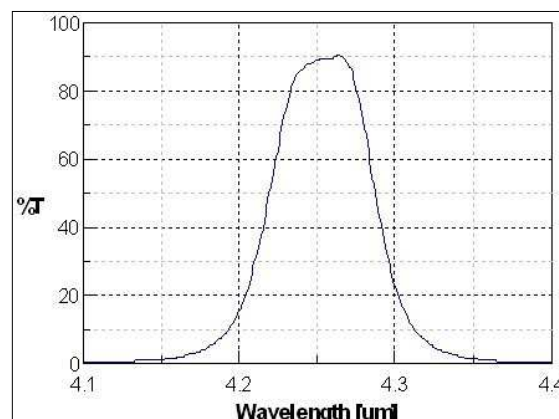
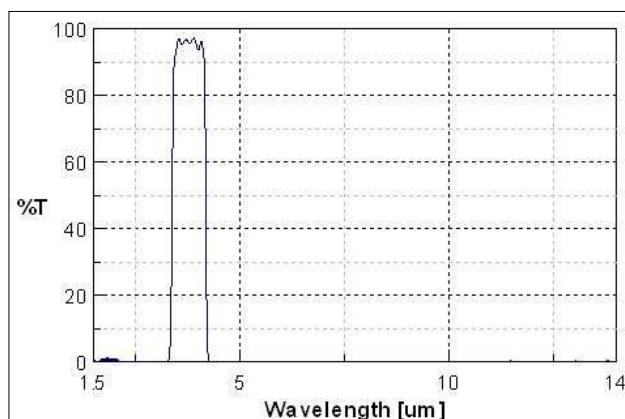
Diameter or Width (mm): $\phi 20 \times 1.0, \phi 10 \times 1.0, \phi 10 \times 0.5$ Thickness (mm): 0.5 ± 0.05

Spectrum

Center Wavelength (μm) = 4.26 ± 0.02 $T_{\text{peak}} \geq 80\%$ Nominal FWHM (μm) = 0.08 ± 0.02 Out of band blocking (from UV to detector limit standard): $T_{\text{max}} < 1\%$ $T_{\text{avg}} < 0.1\%$

Available size of substrate			
Substrate Material	Substrate Size (mm)	Substrate Material	Substrate Size (mm)
Ge	$\phi 24 \times 2.5$	Si	$\phi 101.6 \times 0.5$
	$\phi 16 \times 1.0$		$\phi 100 \times 0.5$
Gemstone	$\phi 20 \times 1.0$		$\phi 50.8 \times 1.0$
	$\phi 10 \times 1.0$		$\phi 25.4 \times 0.5$
	$\phi 30 \times 1.0$		$\phi 25 \times 0.5$
Bk7	$\phi 30 \times 1.0$		$\phi 20 \times 1.0$
	$\phi 16 \times 1.0$		$\phi 16 \times 1.0$
	$\phi 16 \times 0.5$		$\phi 10 \times 1.0$
Fused Silica	$\phi 10 \times 1.0$	ZnS	$\phi 28 \times 1.4$

Performance



IR Filter

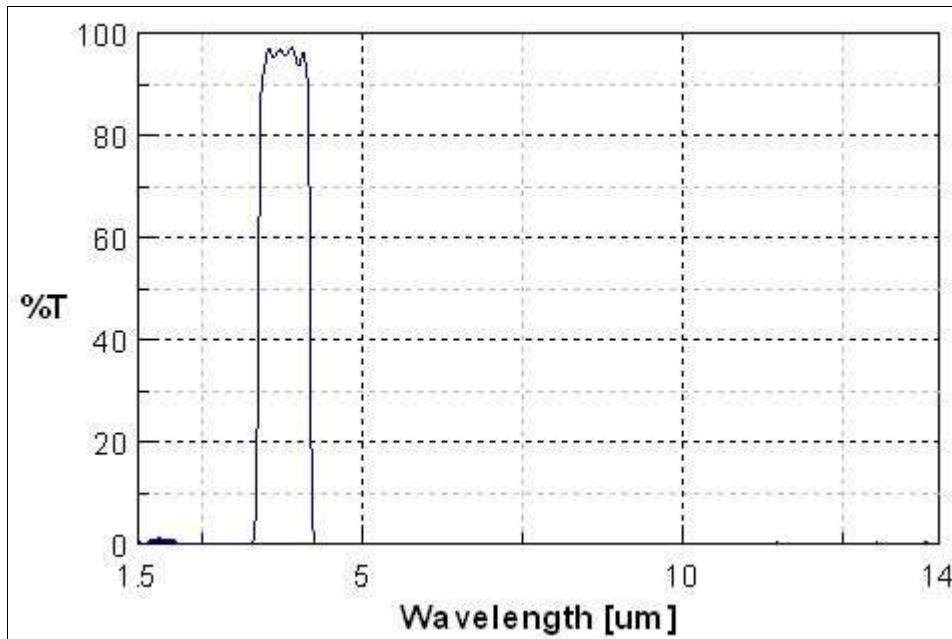
IR Wde Bandpass Filter (3.8µm)

Substrate Material: Sapphire
 Diameter or Width (mm): φ20x1.0, φ10x1.0, φ10x0.5
 Thickness (mm): 0.5±0.05

Spectrum

Center Wavelength (µm) = 3.8±2%µm
 3.45~4.15µm: Tavg≥90%
 Half Power Points = 3.42±2%µm and 4.2±2%µm

Performance



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IR Filter

IR Long Bandpass Filter (7.2 μ m)

Substrate Material: Germanium
Diameter or Width (mm): ϕ 24x2.5, ϕ 16x1.0
Thickness (mm): 2 ± 0.2

Spectrum

7.5~11 μ m: $T_{avg} > 90\%$, $T_{min} > 80\%$
1.5~7.2 μ m: $T_{max} < 3\%$

Performance

