

**NEW**

# YIG

Key Isolator Material for Mid-IR

## Features

- ✓ High Purity
- ✓ Maximum Length: 80 mm
- ✓ Maximum Diameter: 5 mm

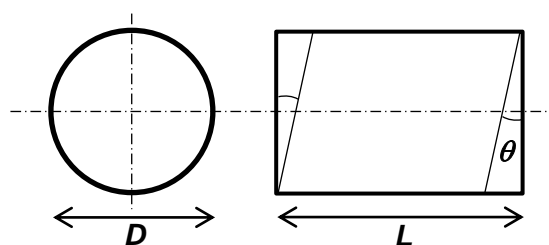


YIG (Yttrium Iron Garnet) Single Crystal

## Advantages of FZ-Grown YIG

	FZ	Flux	Epi
Element Size	✓✓	✓	×
Purity	✓✓	×	✓
Volume Production	✓✓	×	✓
Orientation Control	✓	×	✓
Pb-free	✓✓	×	×

## Typical Dimensions of Element



Diameter $D$ (mm)	Length $L$ (mm)	Surface Angle $\theta$ (deg.)	Coating wavelength $\lambda$ ( $\mu\text{m}$ )
2.0 - 5.0	1.0 - 6.0	0 - 0.5	2.0 - 4.5

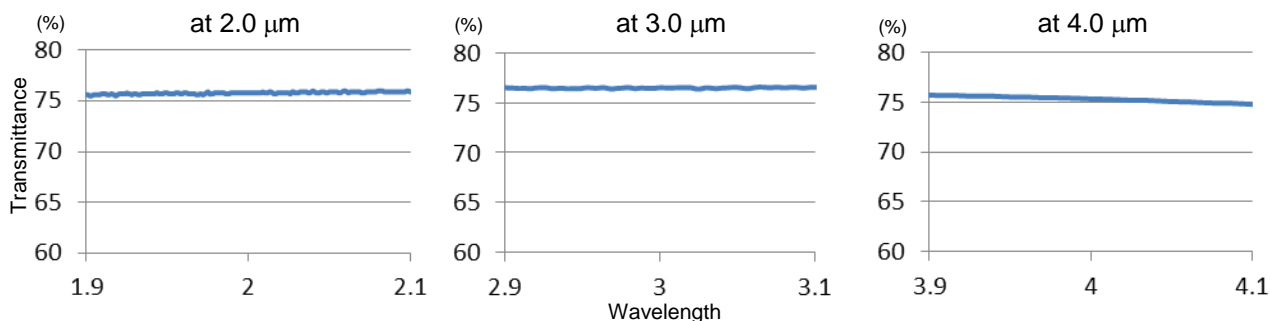
Contact for Custom Request

## Properties

Crystal Structure: Cubic

Density: 5.17 g/cm<sup>3</sup>, Lattice Constant: 1.24 nm

Transmittance (\*Bulk / Uncoated): >75% at 2-4  $\mu\text{m}$ , >70% at 4.5  $\mu\text{m}$



# OXIDE

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