

**NEW**

# PPMgSLT waveguide

for High Power and High Conversion Efficiency in UV, Visible - MIR Range

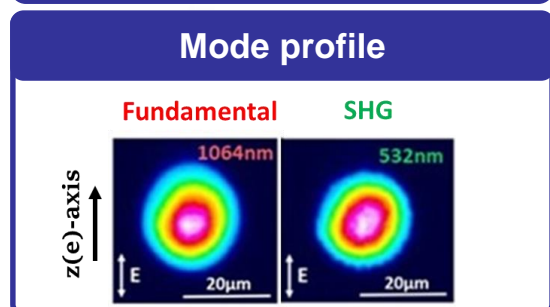
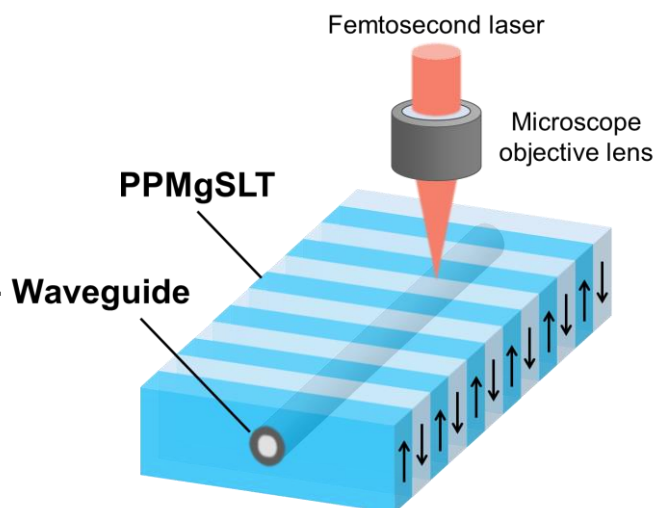
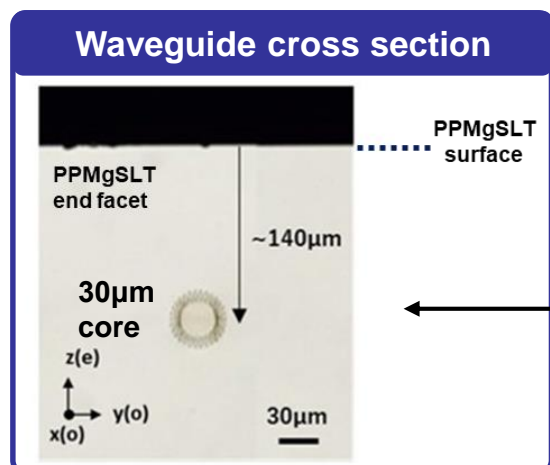
Reference exhibit

## Features

- ✓ Femtosecond-Laser-Written Waveguide inside PPMgSLT
- ✓ Available for Watt Class Frequency Conversion
- ✓ Available for UV, Visible - MIR Range

## Suitable for high power, high conversion efficiency

An example of PPMgSLT waveguide and SHG performance



**Normalized external conversion efficiency**

**Bulk** 0.76 %/W (typ.)

↓ ~ 19 times

**Waveguide** 14.3 %/W

Sample	Core diameter ( $\mu\text{m}$ )	30.0	
	Waveguide length (mm)	20.0	
	Poling period ( $\mu\text{m}$ )	7.98	
	with AR coating for 1064nm and 532nm		
Fund.	MFD ( $\mu\text{m}$ )	21.2	
	Insertion loss (dB)	0.6	
	Propagation loss (dB/cm)	< 0.30	
	Wavelength (nm)	1064.7	
SHG	MFD ( $\mu\text{m}$ )	20.0	
	Normalized external conversion efficiency	(%/W)	14.3
		(%/W/cm <sup>2</sup> )	3.6
	QPM Temperature ( $^{\circ}\text{C}$ )	40.63	
	Wavelength (nm)	532.35	

Above products are based on results obtained from a project commissioned by the New Energy and Industrial Technology Development Organization (NEDO).

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