

Crystal

MgO:PPLN-SHG



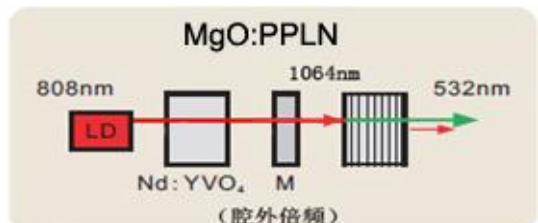
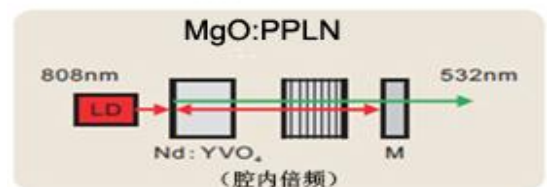
Periodically poled lithium niobate(MgO:PPLN) is a new nonlinear optical crystal. It can realize high efficiency frequency conversion of frequency doubling, sum frequency and optical parametric from visible light to mid-infrared light by quasi-phase matching (QPM) technique. Comparing with LBO and KTP, MgO:PPLN has many advantages such as high nonlinear coefficient, smaller size and shorter manufactured cycle.

Features:

- High nonlinear coefficient
- Adding 5mol% MgO to Lithium Niobate
- High conversion efficiency ($\geq 50\%$)
- High optical damage threshold
- Broad-range, precise frequency conversion
- Small size

Applications:

- 1、 Intracavity frequency doubling
- 2、 External-cavity single pass frequency doubling



Specifications(MgO:PPLN-SHG)

Transparency Range	360-5000nm
Chip Thickness	0.5-1mm
Chip Width	1-10mm
Chip Length	1-20mm
Single Grating Period	6.95um
Pump	1064nm
Output	532nm
End Surfaces	Optically polished and AR coated, on both input/output facets AR@1064nm&532nm
Damage Threshold(typical)	600MW/cm ² (1064nm,9ns,10Hz)
Dimensions (W*T*L)	2*1*1mm, 2.8*1*2mm, 2*1*10mm Other demensions available upon request