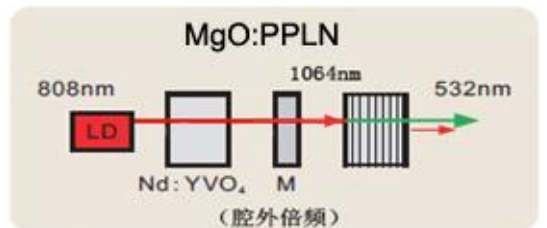
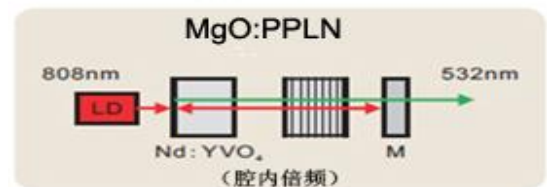




Periodically poled lithium niobate(MgO:PPLN) is a new nonlinear optical crystal. It can realize high efficiency frequency conversion of frequency doubling, sum frequency and optical parametric oscillator from visible light to mid-infrared light by quasi-phase matching (QPM) technique. Comparing with 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 (≥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 | 6.93-6.97um |
| 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) | 5*1*2mm, 5*1*3mm, 5*1*10mm, 5*1*20mm Other demensions available upon request |