

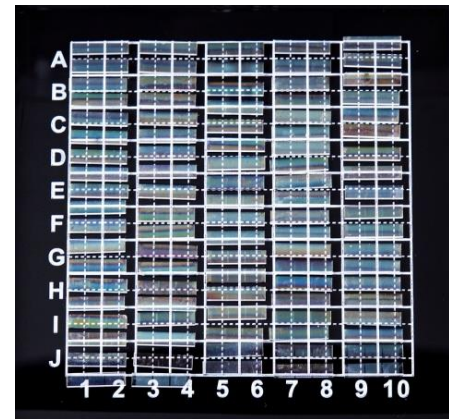
Periodically Poled Lithium Niobate(MgO:PPLN) is a new nonlinear optical crystal. It can realize high efficiency frequency conversion of frequency doubling, sum frequency and optical parametric oscillator from visible light to mid-infrared light by quasi-phase matching (QPM) technique. Comparing with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

Features:

- Adding 5mol% MgO to Lithium Niobate
- High nonlinear coefficient
- Broad-range, High conversion efficiency
- High optical damage threshold
- Single and multiple gratings available

Application :

1. Mid IR laser
2. OPO



Specifications(MgO:PPLN-OPO) :

Transparency Range	360-5000nm
Chip Thickness	1-2mm
Chip Width	2-10mm
Chip Length	10-70mm
Grating Periods	29.0, 29.5, 30.0, 30.5, 31.0, 31.5, 32.0um (Other periods available upon request)
End surfaces	Optically polished and AR coated, on both input/output facets AR@1030-1064nm&1450-1650nm&3000-4000nm
Damage Threshold (typical)	600MW/cm ² (1064nm,9ns,10Hz)
Dimensions (W*T*L)	5*1*40, 5*1*50, 5*1*60, 5*2*40, 5*2*50, 5*2*60 (Other dimensions available upon request)
Pump Laser	1064nm