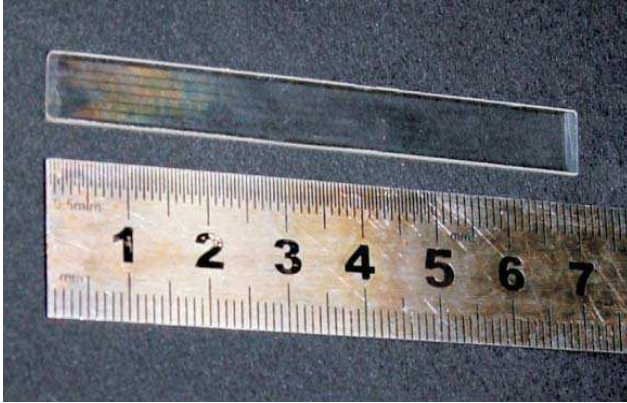
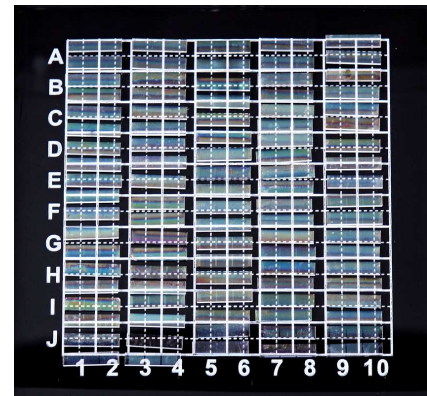


Crystal

MgO:PPLN-OPO



Periodically poled lithium niobate(MgO:PPLN) is a new nonlinear optical crystal. It can realize high efficiency frequency conversion of 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:

- 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. Ranging; 3. Remote sensing; 4. Atmospheric detecting; 5. Electro-optic warfare.

Specifications(MgO:PPLN-OPO) :

Transparency Range	360-5000nm
Chip Thickness	1-2mm
Chip Width	2-10mm
Chip Length	10-70mm
Single Grating Periods	29.0, 29.5, 30.0, 30.5, 31.0, 31.5, 32.0um (Other periods available upon request)
Multiple Grating 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)
Demensions (W*T*L)	5*1*60,5*1*50,5*1*40,7*1*40,7*1*50,7*2*40,5*2*40,5*2*50, 5*2*60,5*2*45mm (Other demensions available upon request)