



Wavelength Conversion Tutorial

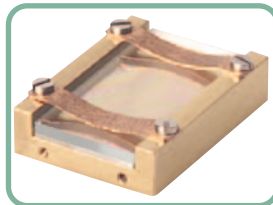
- Periodically Poled Lithium Niobate (PPLN)
- Second Harmonic Generation
- Optional Parametric Oscillator (OPO)
- Sum and Difference Frequency Mixing
- How to Use PPLN

See Pages 548-549

Wavelength Conversion Selection Guide

- Application and Wavelength Coverage Chart
- Example Applications
- Crystals Available from Stock

See Pages 550-551



PPLN for Generation of 1.3 μ m to 5 μ m

- Crystals for Optical Parametric Oscillators
- High Efficiency
- Tunable by Temperature
- Crystals Mounted for Easy Handling
- Crystals AR Coated

See Pages 552-554

PPLN for Second Harmonic Generation (SHG)

- Difference Frequency Generation (DFG) & Sum Frequency Generation (SFG) Crystals
- Frequency Doubling of a Range of Wavelengths Centered on Common Lasers
- 976nm to 488nm, 1064 to 532nm, 1310 to 655nm, 1550 to 775nm, 1600nm to 800nm, 2100nm to 1050nm
- Crystals Mounted for Easy Handling
- AR Coated

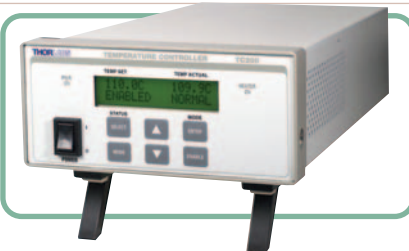
See Pages 555-557



PPLN Oven

- Easy to Use – Compatible With Thorlabs Optomechanics
- Crystals Can be Interchanged Without Removing Oven From Bench
- Crystals Automatically Align to Oven
- Uniform Temperature, Insulated to Allow Handling Even When at Temperature

See Page 558



PPLN Temperature Controller

- Compatible with PPLN Oven
- 0.1°C Accuracy
- Easy to Use
- RS232 Control Option

See Page 559