

Harmonic Generators

Femtosecond Wavelength Conversion

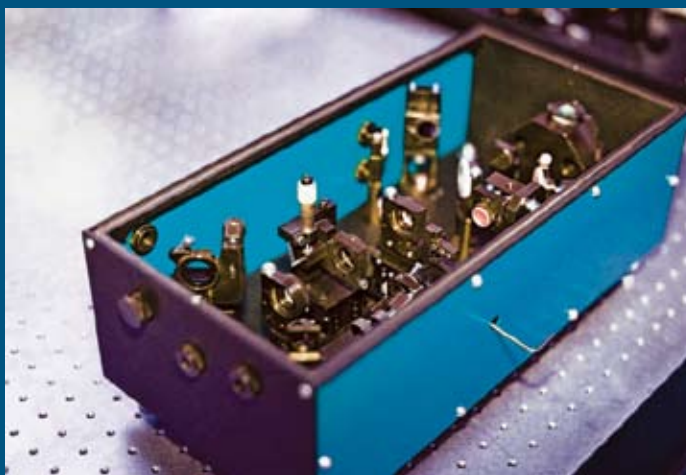
Ti:sapphire Second Harmonic Generators



Input Wavelength	700-1000 nm
Output Wavelength	350-500 nm
Efficiency	> 12%
Temporal Broadening	< 50 fs
Input Polarization	Linear - Horizontal
Output Polarization	Linear - Vertical
Nonlinear Crystal	BBO - Angle Tuning

Ti:sapphire Multi-Harmonic Generators

Input Wavelength	700-1000 nm
SHG Output Wavelength	350-500 nm
THG Output Wavelength	233-333 nm
SHG Efficiency	> 12%
THG Efficiency	> 4%
Temporal Broadening	< 200 fs (THG)
Input Polarization	Linear - Horizontal
SHG Output Polarization	Linear - Vertical
STHG Output Polarization	Linear - Horizontal
Nonlinear Crystal	BBO - Angle Tuning



DEL  **MAR PHOTONICS**

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Cr:forsterite Second Harmonic Generators



Input Wavelength	1230-1280 nm
Output Wavelength	615-640 nm
Efficiency	> 35%
Temporal Broadening	< 10 fs
Input Polarization	Linear - Horizontal
Output Polarization	Linear - Vertical
Nonlinear Crystal	LBO - Angle Tuning

Cr:forsterite Multi-Harmonic Generators

Input Wavelength	1230-1280 nm
SHG Output Wavelength	615-640 nm
THG Output Wavelength	410-427 nm
SHG Efficiency	> 35%
THG Efficiency	> 12%
Temporal Broadening	< 100 fs (THG)
Input Polarization	Linear - Horizontal
SHG Output Polarization	Linear - Vertical
STHG Output Polarization	Linear - Horizontal
Nonlinear Crystal	LBO - Angle Tuning



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