LT-2215-OPG

Picosecond Tunable Optical Parametric Generator

LT-2215-OPG is a new picosecond parametric generator designed especially to extend the application of our Nd:YAG picosecond laser LS-2151.

LT-2215-OPG has build-in third harmonic generator (355 nm) for pump laser and provides tuning range 425-2300 nm as well as operation at third harmonic of LS-2151.

LT-2215-OPG has Type II OPG and high power OPA stages inside and could be delivered with the manual control (model LT-2215-OPG) or with PC control (model LT-2215-OPG-PC)

Specification

Parameter		Value
Tuning range Δλ, nm	at signal wave (SW) at idler wave (IW)	425–710 710–2300
Typical linewidth δλ, nm		≤1.5*
Pump radiation conversion efficiency at maximum of tuning curve (at 15 Hz), %	$(E_{SW}+E_{IW})$** E_{SW}**	≤12 ≤10
TH (355 nm) Output, mJ		20*
Pulse repetion rate, Hz		15
Polarization at SW and IW		SW — Linear horizontal, IW — Linear vertical
Size L x W x H, mm (Weight, kg)	Tunable laser Control unit	630 x 265 x 120 (17.5) 256 x 257 x 111 (3.5)

* With pumped by LS-2151
** Relatively to E_{355nm}

Tuning curves of LT-2215-OPG

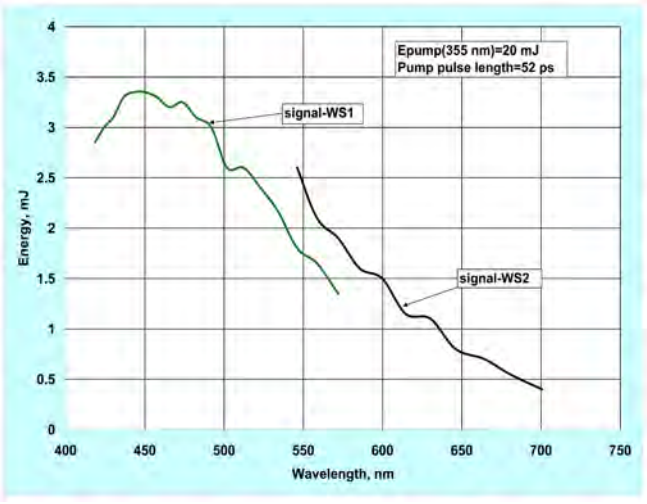

Fig. 1 Tuning curve of the signal wave*

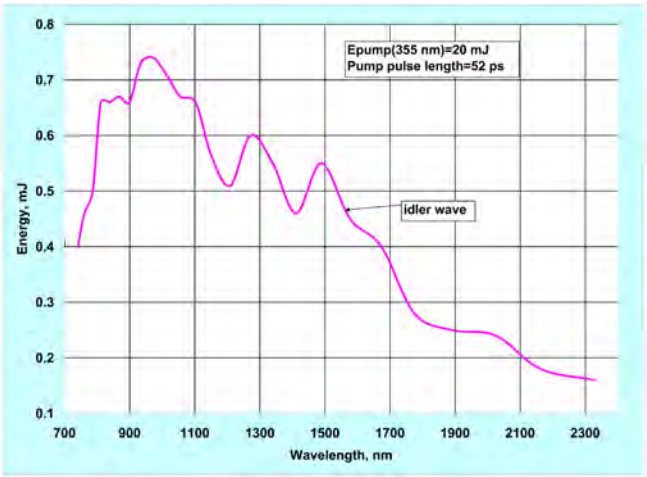

Fig.2 Tuning curve of the idler wave*

* Example of tuning curve, may be different, for reference only.

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