

# LT-2212 Tunable Forsterite Laser



*LOTIS TII LT-2212 tunable solid state laser is designed for conversion of the fundamental radiation of Nd:YAG lasers to widely tunable radiation in visible and near IR spectral ranges.*

Unlike most forsterite lasers, our LT-2212 laser requires only one set of optics for all tuning ranges to eliminate the downtime associated with changing and realigning the optics during an experiment. The special design of the active element improves the beam alignment stability and reliability of laser operation. The model has a highly

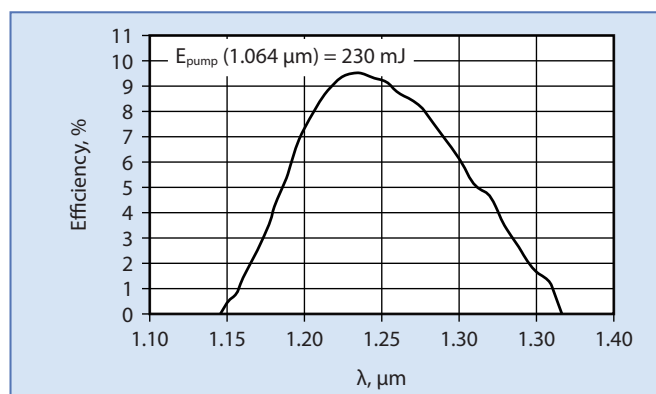
efficient built-in SHG, to provide operation in the IR and visible spectral ranges.

## Specification

Parameter	Value	
Active medium	Mg <sub>2</sub> SiO <sub>4</sub> :Cr <sup>4+</sup> (Forsterite)	
Tuning range, nm	at Fundamental	1160–1360
	at Second Harmonic	580–680
Linewidth, nm	0.8 (0.2*)	
Pump radiation conversion efficiency, %	at Fundamental	9
	at Second Harmonic	2
Pulse duration (FWHM), ns	8–30	
Beam divergence (full angle for 86 % of energy), mrad	1.5	
Size L x W x H, mm (Weight, kg)	LT-2212	425 x 160 x 80 (6.5)
	FH, TH Unit for LT-2212	152 x 105 x 55 (3.0)

\* available on request

## Tuning Curve LT-2212



Pumped with LS-2134

