



Components



Second Harmonic Generator ASG

- High conversion efficiency
- Small walk-off angle
- Low beam divergence
- No heating

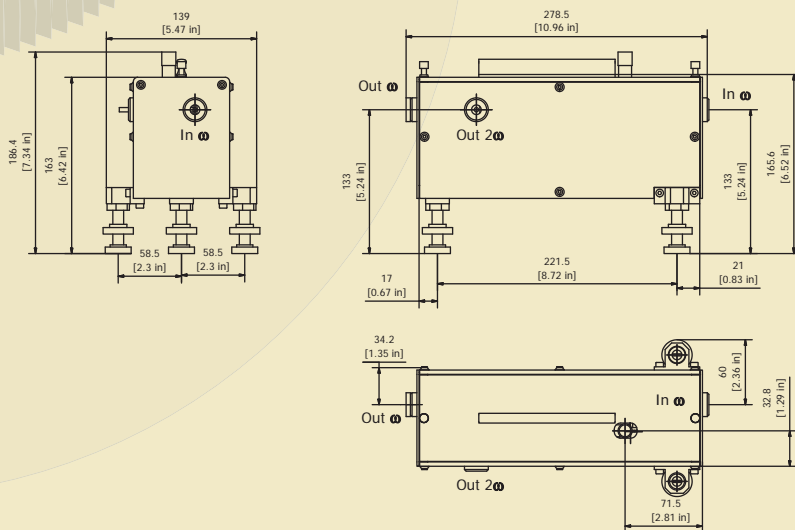


Second harmonic generator ASG

Product overview

Second harmonic generators ASG800, ASG800-B and ASG1250 are developed for producing the coherent radiation at doubling frequency for femtosecond oscillator sources having output wavelength range at 800 nm (TiSa lasers) and 1.25 μ m (CrF lasers). Principles of operation are based on second harmonic generation technique and provides stable radiation with good beam quality and small pulse broadening in fs scale.

ASG technical specifications



	ASG800	ASG800-B*	ASG1250
Input wavelength, nm	710 - 960	800	1250
Output wavelength range, nm	355 - 480	400	625
Input pulse width, fs	> 20		
Input polarization	linear-horizontal		
Input average power, mW	> 300		> 250
Conversion efficiency	> 22%	> 35%	> 30%
Temporal broadening, fs	< 100	< 60	< 60
Output polarization	linear-vertical		
Dimensions, mm	280x140x186	300x300x186	280x130x186

* - with additional optomechanical parts allowing negative GVD precompensation of the input pulse.