*pulse*Slicer

Often there is a need for a variable bandwidth or pulse width of an ultrashort laser pulse, however standard laser sources typically generate fixed or slightly variable pulses only. The *pulse*Slicer is an simple solution for narrowing broadband laser pulses by spectral cutting.

An optical system disperses the pulses spatially, and in the plane where the spectral components are separated, the spectrum is controlled via a mask. Afterwards, the dispersed pulse is recollimated.

With the narrowing of the spectrum the pulse width is modified accordingly, resulting in longer pulses. Of course the transmitted power is reduced proportionally to the amount of spectral cutting, but many applications are not power limited when considering the available laser input power.

- Easily variable output bandwidth / pulse width
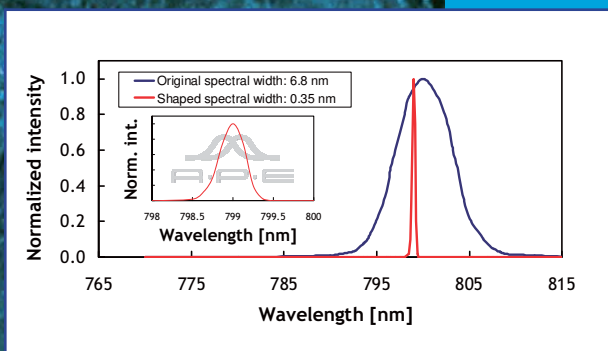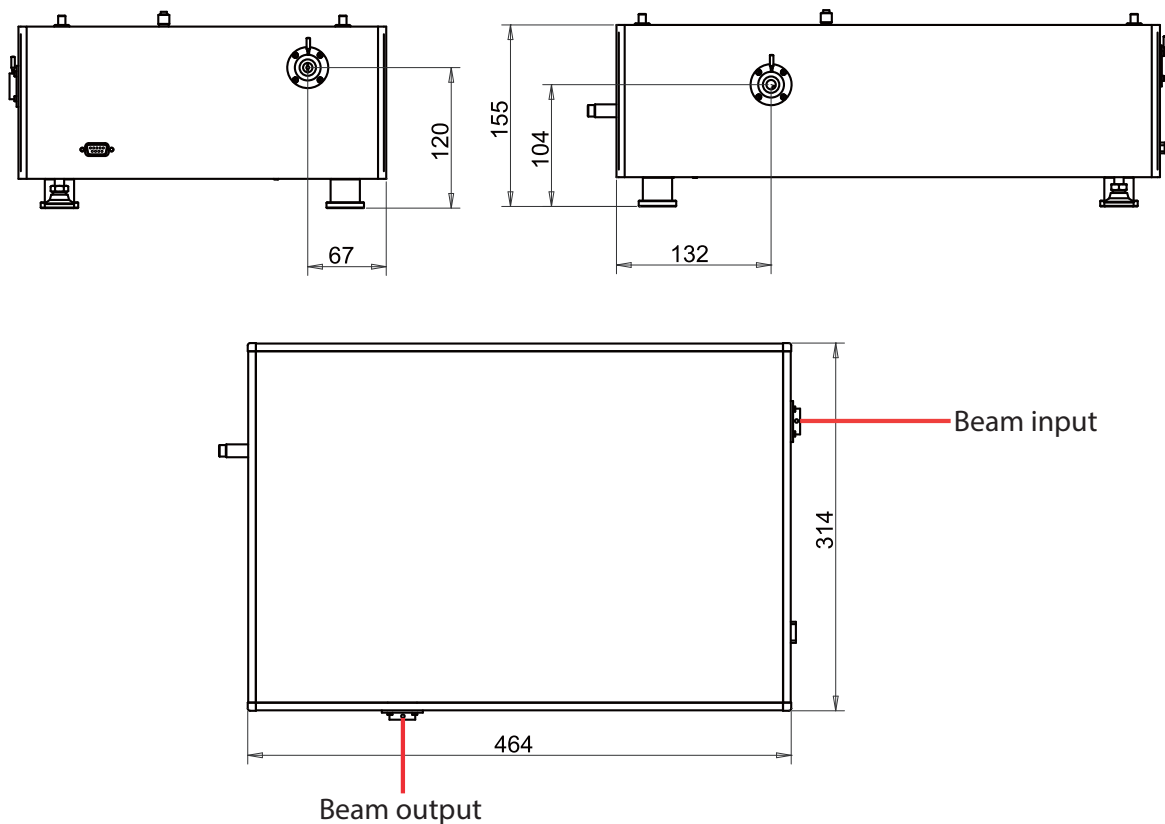- Simple solution for narrowing broadband laser pulses

Specifications

Wavelength ranges	700 … 1100 nm or 1000 … 1600 nm (others on request)
Minimum output bandwidth $d\lambda_{out}$	0.3 nm
Static transmission T_s	0.5 … 0.7 (depending on wavelength range)
Overall throughput	$T_s * d\lambda_{out}/d\lambda_{in}$

Option

• Autotracker - for automatic optimization to input wavelength variations

Dimensions (in mm)

120

155

104

67

132

Beam input

314

464

Beam output

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