



DAZZLER™ WR-460-740

Intermediate-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ **Ultra-compact device**

✓ **Advanced software functionalities**

• Wavelength tuning range

- *Optional extended tuning range*
- *Typical 30 to 40% diffraction efficiency drop on extended tuning range*
- *Wavelengths outside this range are poorly or not diffracted*

460 nm to 740 nm

510 nm to 950 nm

• Instantaneous bandwidth

up to 280 nm

• Spectral resolution

0.2 nm at 500 nm

0.3 nm at 700 nm

• Intensity control dynamic range

> 45 dB

• Maximum programmable delay

9 ps at 500 nm

7 ps at 700 nm

• Diffraction efficiency for operation up to 10 kHz

- *With optional 20W RF amplifier (up to 6kHz)*
- *With optional 50W external RF amplifier (up to 2.5kHz)*

60% on a 50 nm bandwidth

30% on a 100 nm bandwidth

40% on a 100 nm bandwidth

40% on a 250 nm bandwidth

• Typical acoustic waveform refreshing time

< 3ms

• Input beam requirements

30 μ J max on $\phi = 2.5$ mm, collimated

• Optical module dimensions

33 x 85 x 22 mm³

• Typical optical jitter

- *With optional Low-jitter electronics*

< 10 fs

< 100 as

✓ **Special feature for multidimensional spectroscopy experiments**

The optional **Streaming mode** allows to switch between pre-defined pulse shapes at repetition rates up to 500Hz. The maximum number of waveforms is over 100 000. Includes specific hardware, software, and synchronization management.

