



DAZZLER™ HR45-1100-2200

High Resolution-cut 45mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ **Ultra-compact device**

✓ **Advanced software functionalities**

- Wavelength tuning range
 - With optional wavelength extension
 - Wavelengths outside this range are poorly or not diffracted

- Instantaneous bandwidth
 - With optional wavelength extension

• Spectral resolution

• Intensity control dynamic range

• Maximum programmable delay

• Diffraction efficiency for operation up to 5 kHz

- With optional 20W RF amplifier (up to 3kHz)
- With optional 50W external RF amplifier (up to 1.5kHz)

• Typical acoustic waveform refreshing time

• Input beam requirements

• Optical module dimensions

• Typical optical jitter

- With optional Low-jitter electronics

✓ **In-line geometry**

✓ **Simple optical alignment**

1100 nm to 2200 nm

1100 nm to 2500 nm

up to 1100 nm

up to 1400 nm

0.7 nm at 1700 nm

> 45 dB

13 ps at 1700 nm

50% on a 100 nm bandwidth

25% on a 200 nm bandwidth

40% on a 200 nm bandwidth

40% on a 500 nm bandwidth

< 3ms

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

52 x 105 x 23 mm³

< 10 fs

< 100 as

✓ **Special feature for CEP control**

Multi-kHz rate CEP control with the optional CEP modulation solution. This additional hardware allows dispersion-free, single-shot control of the CEP value down to 6mrad resolution.

