FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ HR 1550

High Resolution-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER FOR FEMTOSECOND LASER PULSE SHAPING

- ✓ Ultra-compact device
- √ Advanced software functionalities
- ✓ In-line geometry
- √ Simple optical alignment

 Wavelength 	tuning	range
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1430 nm to 1670 nm

Wavelengths outside this range are poorly or not diffracted

•	Insta	ntan	enus	hand	lwidth

up to 240 nm

Spectral resolution

1 nm at 1550 nm

Intensity control dynamic range

> 45 dB

Maximum programmable delay

7 ps at 1550 nm

• Diffraction efficiency for operation up to 10 kHz

50% on a 50 nm bandwidth 25% on a 100 nm bandwidth

With optional 20W RF amplifier (up to 6kHz)

40% on a 100 nm bandwidth

With optional 50W external RF amplifier (up to 2.5kHz)

40% on a 240 nm bandwidth

Typical acoustic waveform refreshing time

< 3ms

Input beam requirements

30 μ J max on ϕ = 2.5 mm, collimated

Optical module dimensions

48 x 94 x 20 mm³

Typical optical jitter

< 10 fs

With optional Low-jitter electronics

< 100 as

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