

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ HR45-1030

High Resolution-cut 45mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

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

• Wavelength tuning range	910 nm to 1150 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 240 nm
• Spectral resolution	0.3 nm at 1030 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	14 ps at 1030 nm
• Diffraction efficiency for operation up to 5 kHz	50% on a 100 nm bandwidth 25% on a 200 nm bandwidth
○ With optional 20W RF amplifier (up to 3kHz)	40% on a 200 nm bandwidth
○ With optional 50W external RF amplifier (up to 1.5kHz)	60% on a 240 nm bandwidth
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	54 x 105 x 20 mm ³
• Typical optical jitter	< 10 fs
○ With optional Low-jitter electronics	< 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.



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