

FASTLITE

Ultrafast - Shaping - Measurement - Control



DAZZLER™ WB45-1450-3000

Wide Band-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	1450 nm to 3000 nm
○ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 1550 nm
• Spectral resolution	1.2 nm at 1600 nm 2.0 nm at 2100 nm 3 nm at 2600 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	5.5 ps at 2100 nm
• Diffraction efficiency for operation up to 7.5 kHz	50% on a 200 nm bandwidth 25% on a 400 nm bandwidth 35% on a 400 nm bandwidth 50% on a 600 nm bandwidth
○ With optional 20W RF amplifier (up to 4.5kHz)	
○ With optional 50W external RF amplifier (up to 2kHz)	
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	48 x 98 x 22 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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Spec-WB45-1450-3000-rev2016-1 9/3/2016