



DAZZLER™ WR-460-740

Intermediate-cut 25mm DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER FOR FEMTOSECOND LASER PULSE SHAPING

✓ Ultra-compact device

✓ In-line geometry

✓ Simple optical alignment

- Wavelength tuning range
 - o Optional extended tuning range

✓ Advanced software functionalities

- 460 nm to 740 nm 510 nm to 950 nm
- Typical 30 to 40% diffraction efficiency drop on extended tuning range
- Wavelengths outside this range are poorly or not diffracted

 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 60% on a 50 nm bandwidth 30% on a 100 nm bandwidth 40% on a 100 nm bandwidth 40% on a 250 nm bandwidth 40		
 Intensity control dynamic range Intensity control dynamic range Maximum programmable delay Diffraction efficiency for operation up to 10 kHz With optional 20W RF amplifier (up to 6kHz) With optional 20W RF amplifier (up to 6kHz) With optional 50W external RF amplifier (up to 2.5kHz) Typical acoustic waveform refreshing time Simax on \$\$\overline{2}\$.5mm, collimated Optical module dimensions Typical optical jitter 	Instantaneous bandwidth	up to 280 nm
 Intensity control dynamic range Maximum programmable delay 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) Typical acoustic waveform refreshing time Goptical module dimensions Typical optical jitter All optical potical jitter 	Spectral resolution	
 Maximum programmable delay Diffraction efficiency for operation up to 10 kHz 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) With optional 50W external RF amplifier (up to 2.5kHz) Typical acoustic waveform refreshing time Sima 30 μJ max on φ = 2.5 mm, collimated Optical module dimensions Typical optical jitter 		0.3 nm at 700 nm
 Piffraction efficiency for operation up to 10 kHz Oiffraction 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) Typical acoustic waveform refreshing time Input beam requirements Optical module dimensions Typical optical jitter August 22 mm³ Typical optical jitter 	Intensity control dynamic range	> 45 dB
 Diffraction efficiency for operation up to 10 kHz <i>With optional 20W RF amplifier (up to 6kHz)</i> <i>With optional 50W external RF amplifier (up to 2.5kHz)</i> Typical acoustic waveform refreshing time Input beam requirements Optical module dimensions Typical optical jitter All fs 	Maximum programmable delay	9 ps at 500 nm
 With optional 20W RF amplifier (up to 6kHz) With optional 50W external RF amplifier (up to 2.5kHz) Typical acoustic waveform refreshing time Input beam requirements Optical module dimensions Typical optical jitter All optional solution 		7 ps at 700 nm
 With optional 20W RF amplifier (up to 6kHz) With optional 50W external RF amplifier (up to 2.5kHz) Typical acoustic waveform refreshing time Input beam requirements Optical module dimensions Typical optical jitter A0% on a 100 nm bandwidth 40% on a 250 nm bandwidth A0% on a 250 nm bandwidth<td>Diffraction efficiency for operation up to 10 kHz</td><td>60% on a 50 nm bandwidth</td>	Diffraction efficiency for operation up to 10 kHz	60% on a 50 nm bandwidth
 With optional 50W external RF amplifier (up to 2.5kHz) 40% on a 250 nm bandwidth Typical acoustic waveform refreshing time < 3ms Input beam requirements 30 μJ max on φ = 2.5 mm, collimated Optical module dimensions 33 x 85 x 22 mm³ Typical optical jitter < 10 fs 		30% on a 100 nm bandwidth
 Typical acoustic waveform refreshing time < 3ms Input beam requirements Optical module dimensions Typical optical jitter A 10 fs 	 With optional 20W RF amplifier (up to 6kHz) 	40% on a 100 nm bandwidth
 Input beam requirements Optical module dimensions Typical optical jitter 30 μJ max on φ = 2.5 mm, collimated 33 x 85 x 22 mm³ < 10 fs 	• With optional 50W external RF amplifier (up to 2.5kHz)	40% on a 250 nm bandwidth
 Optical module dimensions Typical optical jitter 33 x 85 x 22 mm³ < 10 fs 	 Typical acoustic waveform refreshing time 	< 3ms
• Typical optical jitter < 10 fs	Input beam requirements	30 μ J max on ϕ = 2.5 mm, collimated
	Optical module dimensions	33 x 85 x 22 mm ³
 With optional Low-jitter electronics < 100 as 	Typical optical jitter	< 10 fs
	 With optional Low-jitter electronics 	< 100 as

✓ Special feature for multidimensional spectroscopy experiments

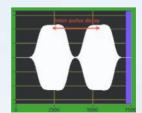
The optional **Streaming mode** allows to switch between pre-defined pulse shapes at repetition rates up to 500Hz. The maximum number of waveforms is over 100 000. Includes specific hardware, software, and synchronization management.

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