



DAZZLER[™] HR800

High Resolution-cut 25mm DAZZLER[™] specifications

Programmable amplitude and phase filter
for femtosecond pulse shaping

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|--|--|
| ✓ Ultra-compact device | ✓ In-line geometry |
| ✓ Advanced software functionalities | ✓ Simple optical alignment |
| • Wavelength tuning range | 680 nm to 920 nm |
| ◦ <i>Wavelengths outside this range are poorly or not diffracted</i> | |
| • Instantaneous bandwidth | up to 240 nm |
| • Spectral resolution | 0.3 nm at 800 nm |
| • Intensity control dynamic range | > 45 dB |
| • Maximum programmable delay | 8 ps at 800 nm |
| • Diffraction efficiency for operation up to 10 kHz | 50% on a 50 nm bandwidth |
| ◦ <i>With optional 20W RF amplifier (up to 6kHz)</i> | 25% on a 100 nm bandwidth |
| ◦ <i>With optional 50W external RF amplifier (up to 2.5kHz)</i> | 40% on a 100 nm bandwidth |
| | 40% 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 | 48 x 94 x 20 mm ³ |
| • Typical optical jitter | < 10 fs |
| ◦ <i>With optional Low-jitter electronics</i> | < 100 as |

✓ **Special feature for Ti:Sa amplifiers optimization**

High dynamic pulse compression optimization
When combined with the **Wizzler** feedback loop.

