



## DAZZLER<sup>™</sup> WB45-2000-3700

Wide band-cut 45mm DAZZLER<sup>™</sup> specifications

Programmable amplitude and phase filter  
for femtosecond pulse shaping

✓ **Ultra-compact device**

✓ **Advanced software functionalities**

✓ **In-line geometry**

✓ **Simple optical alignment**

|   |  |
|---|--|
| • Wavelength tuning range                                     | 2000 nm to 3700 nm                                     |
| ◦ Wavelengths outside this range are poorly or not diffracted |  |
| • Instantaneous bandwidth                                     | up to 1700 nm  |
| • Spectral resolution   | 3.5 nm at 2500 nm<br>7 nm at 3500 nm                   |
| • Intensity control dynamic range                             | > 45 dB  |
| • Maximum programmable delay                                  | 5.5 ps at 2800 nm                                      |
| • Diffraction efficiency for operation up to 7.5 kHz          | 50% on a 200 nm bandwidth<br>25% on a 400 nm bandwidth |
| ◦ With optional 20W RF amplifier (up to 4.5 kHz)              | 35% on a 400 nm bandwidth                              |
| ◦ With optional 50W external RF amplifier (up to 2 kHz)       | 50% on a 600 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 98 x 22 mm <sup>3</sup>                           |
| • 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 included in the 19" rack generator allows dispersion-free, single-shot control of the CEP value down to 6mrad resolution.

