FASTLITE by Amplitude


# DAZZLER™ HR45-1100-2200

## High Resolution-cut 45mm DAZZLER™ specifications

### Programmable amplitude and phase filter for femtosecond pulse shaping

✓ **Ultra-compact device**

✓ **In-line geometry**

✓ **Advanced software functionalities**

✓ **Simple optical alignment**

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|---|---|
| • Wavelength tuning range | 1100 nm to 2200 nm |
| ○ *With optional wavelength extension* | *1100 nm to 2500 nm* |
| ○ *Wavelengths outside this range are poorly or not diffracted* | |
| • Instantaneous bandwidth | up to 1100 nm |
| ○ *With optional wavelength extension* | *up to 1400 nm* |
| • Spectral resolution | 0.7 nm at 1700 nm |
| •Intensity control dynamic range | > 45 dB |
| • Maximum programmable delay | 13 ps at 1700 nm |
| • Diffraction efficiency for operation up to 5 kHz | 50% on a 100 nm bandwidth<br>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)* | *40% on a 500 nm bandwidth* |
| • Typical acoustic waveform refreshing time | < 3ms |
| • Input beam requirements | 30 µJ max on ϕ = 2.5 mm, collimated |
| • Optical module dimensions | 52 x 105 x 23 mm3 |
| • 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.


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