



DAZZLER[™] HR45-1450-3000

High Resolution-cut 45mm DAZZLER[™] 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	1450 nm to 3000 nm
◦ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 1550 nm
• Spectral resolution	0.6 nm at 1600 nm 1.0 nm at 2100 nm 1.5 nm at 2600 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	13 ps at 2100 nm
• Diffraction efficiency for operation up to 5 kHz	50% on a 100 nm bandwidth 25% on a 200 nm bandwidth 40% on a 200 nm bandwidth 40% on a 500 nm bandwidth
◦ With optional 20W RF amplifier (up to 3kHz)	
◦ With optional 50W external RF amplifier (up to 1.5kHz)	
• Typical acoustic waveform refreshing time	< 3ms
• Input beam requirements	30 μJ max on $\phi = 2.5$ mm, collimated
• Optical module dimensions	52 x 105 x 23 mm ³
• Typical optical jitter	< 10 fs < 100 as
◦ With optional Low-jitter electronics	

✓ 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.

