



DAZZLER[™] HR1550

High Resolution-cut 25mm 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	1430 nm to 1670 nm
◦ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 240 nm
• Spectral resolution	1 nm at 1550 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	7 ps at 1550 nm
• Diffraction efficiency for operation up to 10 kHz	50% on a 50 nm bandwidth
◦ With optional 20W RF amplifier (up to 6kHz)	25% on a 100 nm bandwidth
◦ With optional 50W external RF amplifier (up to 2.5kHz)	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	33 x 85 x 23 mm ³
• Typical optical jitter	< 10 fs
◦ With optional Low-jitter electronics	< 100 as