



DAZZLER[™] LN1030

High repetition rate 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	1000 nm to 1060 nm
◦ Wavelengths outside this range are poorly or not diffracted	
• Instantaneous bandwidth	up to 60 nm
• Spectral resolution	0.4 nm at 1030 nm
• Intensity control dynamic range	> 45 dB
• Maximum programmable delay	9 ps at 1030 nm
• Diffraction efficiency at 100kHz	40% on a 40 nm bandwidth
• Typical acoustic waveform refreshing time	< 10 ms
• Optical input requirements	
◦ Loose focusing geometry	
◦ Optical aperture	0,5 mm* 0,5mm
◦ Interaction length	30 mm
◦ Beam Divergence	+/-50 mrad
◦ Maximum input energy	3 μJ
for 150 μm input beam diameter (FWHM gaussian beam)	
◦ Input Polarization	Linear
• Optical module dimensions	60 x 60 x 25 mm ³
• Typical optical jitter	< 10 fs
◦ With optional Low-jitter electronics	< 100 as
• Requires water cooling	