



DAZZLER™ LN-1030

High Repetition rate DAZZLER™

Specifications

PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

- ✓ Ultra-compact device
- ✓ In-line geometry
- ✓ Advanced software functionalities
- ✓ 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 with a 20W RF Amplifier	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	
for 150 μm input beam diameter (FWHM gaussian beam)	3 μJ
○ 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	