DAZZLER™ HR45-650-1100
High Resolution-cut 45mm DAZZLER™

Specifications
PROGRAMMABLE AMPLITUDE AND PHASE FILTER
FOR FEMTOSECOND LASER PULSE SHAPING

✓ Ultra-compact device
✓ Advanced software functionalities
✓ In-line geometry
✓ Simple optical alignment

- Wavelength tuning range
  - 650 nm to 1100 nm
- Instantaneous bandwidth
  - up to 450 nm
- Spectral resolution
  - 0.1 nm at 650 nm
  - 0.2 nm at 900 nm
  - 0.3 nm at 1000 nm
- Intensity control dynamic range
  - > 45 dB
- Maximum programmable delay
  - 14 ps at 900 nm
- Diffraction efficiency for operation up to 5 kHz
  - 50% on a 100 nm bandwidth
  - 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)
  - 45% on a 450 nm bandwidth
- Typical acoustic waveform refreshing time
  - < 3 ms
- 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
  - < 100 as

✓ Special feature for Ti:Sa amplifiers optimization

High dynamic pulse compression optimization
When combined with the Wizzler feedback loop.