DAZZLER™ HR45-1100-2200
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
  o With optional wavelength extension
  o Wavelengths outside this range are poorly or not diffracted
  1100 nm to 2200 nm
  1100 nm to 2500 nm

• Instantaneous bandwidth
  o With optional wavelength extension
  up to 1100 nm
  up to 1400 nm

• Spectral resolution
  0.7 nm at 1700 nm

• Intensity control dynamic range
  > 45 dB

• Maximum programmable delay
  13 ps at 1700 nm

• Diffraction efficiency for operation up to 5 kHz
  o With optional 20W RF amplifier (up to 3kHz)
  o With optional 50W external RF amplifier (up to 1.5kHz)
  50% on a 100 nm bandwidth
  25% on a 200 nm bandwidth
  40% on a 200 nm bandwidth
  40% on a 500 nm bandwidth

• Typical acoustic waveform refreshing time
  < 3ms

• Input beam requirements
  30 μJ max on φ = 2.5 mm, collimated

• Optical module dimensions
  52 x 105 x 23 mm³

• Typical optical jitter
  o With optional Low-jitter electronics
  < 10 fs
  < 100 as

✓ Special feature for CEP control

Multi-kHz rate CEP control with the optional CEP modulation solution. This additional hardware allows dispersion-free, single-shot control of the CEP value down to 6mrad resolution.