PICOSECOND

Gigahertz picosecond fibre seed lasers

Picosecond seed pulses at a configured gigahertz repetition rate.

Applications to discuss: Time-resolved spectroscopy; Optical metrology.

Selection points
1.1-1.2 GHz configured repetition rate / 1020-1080 nm or 1550 nm options / Up to 60 mW in selected options

Configuration options

Configuration	Centre wavelength	Pulse duration	Repetition rate	Average power	Spectral width
Near transform-limited seed	1020-1080 nm	3-60 ps	1.1-1.2 GHz	1-60 mW	Near transform limited
Broadband seed	1020-1080 nm	3 ps	1.1-1.2 GHz	2 mW	Broadband pulses
1550 nm seed	1550 nm	3-60 ps	1.1-1.2 GHz	1-60 mW	Not specified

Each row is a separate configuration. Limits from different rows must not be combined.

Technical details

Parameter	Specification or condition
Output delivery	Polarization-maintaining fibre
Beam propagation factor	M^2 <1.1, stated feature

Integration and delivery

Item	Configuration detail
OEM	200 x 130 x 28.5 mm; supply: 5 V customer supplied; cooling: Thermal Plate customer supplied
Lab	227 x 170 x 37 mm; 227 x 170 x 63 mm with fans and feet; supply: 12 V customer supplied; cooling: Thermal Plate customer supplied/Air Cooled
Rack Mount	248 x 436 x 83 mm; supply: Built-in; cooling: Air Cooled

Conditions and configuration notes

• The repetition rate and pulse duration are fixed choices within the stated intervals; those intervals are not a claim of user adjustment on every unit.

• Average power depends on wavelength, repetition rate and pulse settings. Maxima from different options must not be combined into one operating point.

• A near-transform-limited description is qualitative here; confirm the numerical spectral bandwidth for the chosen pulse.