

## 780 nm 40 GHz Picosecond Laser

Calmar Optcom has extended its family of picosecond fiber lasers with the addition of 780 nm 40 GHz fiber lasers. These ultrafast lasers provide researchers with the ability to test their components and networks at very high speeds.

Pulse repetition rates as high as 160 GHz, and even 640 GHz, can be achieved when Calmar's fiber laser is used with Calmar's Bit Rate Multiplier.

The unique design of Calmar's 40 GHz lasers enable users to tune the wavelength throughout the 765 ~ 780 nm region.

Calmar's fiber lasers are known for their low timing jitter and low amplitude noise, and both 40 GHz lasers feature the same high performance, thereby ensuring that the quality of the laser output meets even the most stringent test requirements.



- Pulse widths < 1.5 ps
- Repetition rate adjustment 38 – 41 GHz
- Wavelength tunability 765 ~ 780 nm
- Average output power > 25 mW
- Low timing jitter
- Automatic and manual mode-locking
- Easy operation

### Optional Upgrades

- Front panel pulse width adjuster
- Very wide repetition rate range (2 ~ 45GHz)
- Computer control

### Distribution in the UK



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The leading supplier of scientific and industrial lasers, optical systems and associated accessories, fibre optic components and instrumentation, and machine vision products.

## Technical Specifications

Model Number	PSL-4R-FF	PSL-4R-PF	PSL-4R-FT	PSL-4R-PT
Pulse Width (ps)	< 1.5	< 1.5	< 1.5	< 1.5
Output Wavelength (nm)	780 (typical)	780 (typical)	765 ~ 780	765 ~ 780
Repetition Rate (GHz)	38 ~ 41	38 ~ 41	38 ~ 41	38 ~ 41
Timing Jitter (fs)	< 100	< 100	< 100	< 100
Amplitude Noise (%)	< 1.5	< 1.5	< 1.5	< 1.5
Output Power at 40 GHz (mW)	> 25	> 12	> 20	>10
Output Interface	Free Space*	Fiber Pigtail	Free Space*	Fiber Pigtail
Operating Temp (°C)	15 - 30	15 - 30	15 - 30	15 - 30
Operating Voltage (V)	85 - 264 AC	85 - 264 AC	85 - 264 AC	85 - 264 AC
Dimensions (cm)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)

\* Beam divergence for free space output < 1 degree.

Specifications are subject to change without notice - 11/5/2004

## Safety Information

The product complies with FDA radiation performance standards 21 CFR 1040.10 and 1040.11

