

## OVERVIEW

**APPLICATIONS**

- OTDM communication systems
- Optical switching
- Optical computing
- Optical CDMA communication system

**FEATURES**

- Compression of transform-limited ps pulses to fs pulse widths
- Low pedestal (< 3 %)
- High average output power (> 100 mW)
- Integrated EDFA can be used independently
- Super continuum generation

**ADVANTAGES**

- Performance – Specially designed EDFA to control dispersion and nonlinear effects.
- Precision – Dispersion controlled specialty fiber design is optimized to meet demanding performance requirements
- Space saver – single unit fits into industry standard rack mountable space and provides the same functionality as multiple instrument configurations

PRODUCT SPECS

**SPECIFICATIONS**

Model	PCS-1	PCS-2
Pulse Width	Pre -Compress: 3 ps Post-Compress: 400 fs	Pre -Compress: 1.5 ps Post-Compress: 150 fs
Input wavelength	1545 -1560 nm	1545 -1560 nm
Bandwidth	>8 nm	>12 nm
Average Output Power	> 100 mW at 10 GHz	> 150 mW at 10 GHz
Peak Power	>10 W at 10 GHz	>50 W at 10 GHz
Pedestal	< 3%	< 3%
Operating Temperature	15 – 35 degree C	15 – 35 degree C
Dimensions	34 x 42 x 9 (cm)	34 x 42 x 9 (cm)
<small>All information contained here is believed to be accurate and is subject to change without notice. No responsibility is assumed for its use. Some specific combinations of options may not be available. Please contact Calmar Optcom for more information.</small>		

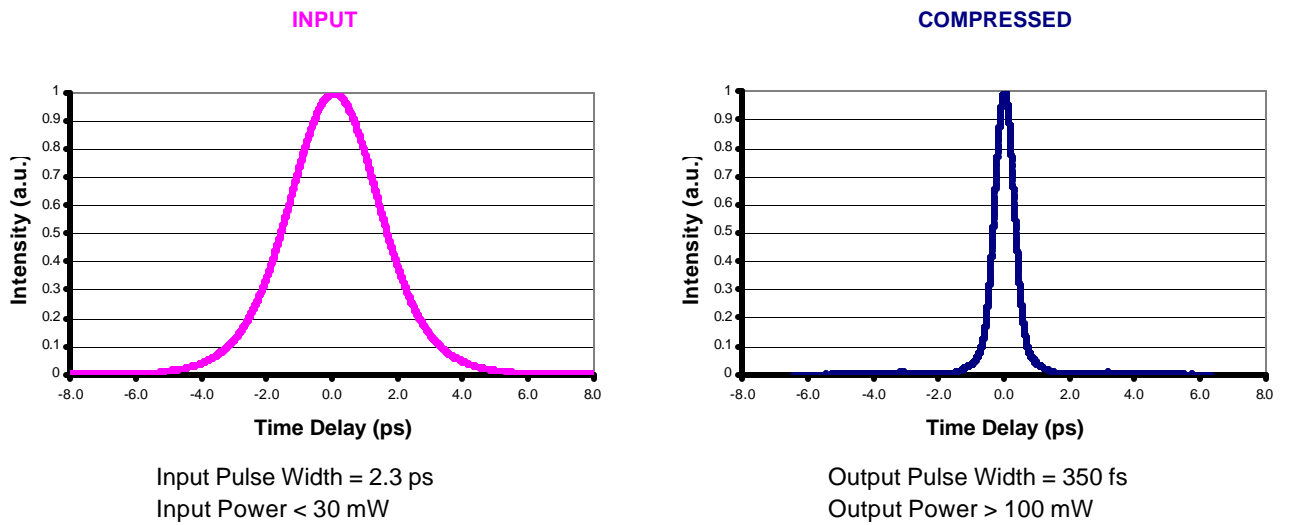
**OPTIONAL ALTERNATIVE**

**Pulse Compressor Fiber (PCF) Module.**

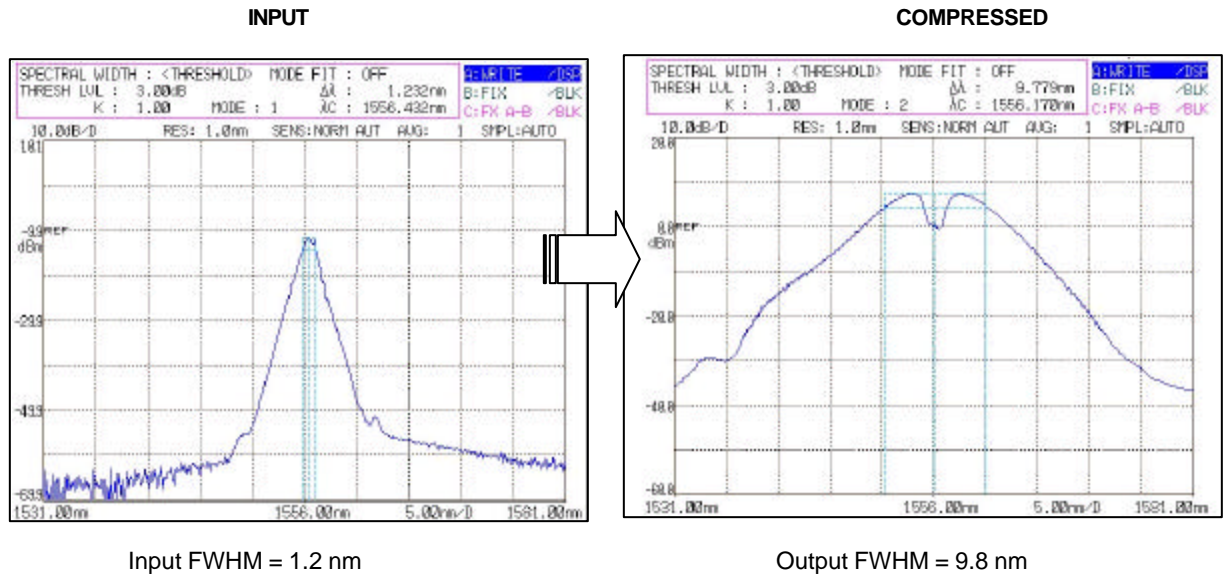
Calmar Optcom is pleased to introduce the Pulse Compressor Fiber (PCF). This cost effective product is ideal for users who require pulse width compression of optical signals, and are already in possession of EDFA capabilities. The unit is equipped with input and output FC/PC connectors for ease-of-use operation.

## PERFORMANCE

### PCS-1 Autocorrelations at 10 GHz Bit Rate



### PCS-1 Optical Spectrum

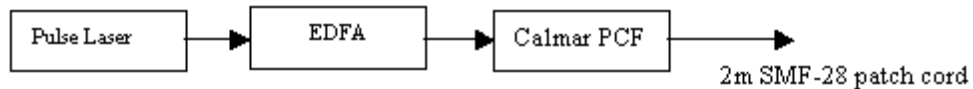


## PULSE COMPRESSOR FIBER

This product is a low cost version of the PCS Series featuring a specially designed dispersion controlled fiber in a practical module package. When used along with Calmar Optcom's PSL and EDFA Series models, it produces 100 to 700 fs pulse width signals with low pedestal.

### SPECIFICATIONS

Model	PCF
Pulse Width	Pre-Compress: 3 ps Post-Compress: 400 fs - 700 fs
Input wavelength	1530-1560 nm
Bandwidth	>6 nm, >8 nm at a specific wavelength
Average Output Power	> 100 mW at 10 GHz
Peak Power	>10 W at 10 GHz
Pedestal level ratio	< 3%
Operating Temperature	15 – 35 degree C
Weight	1.6 lbs
Dimensions	6 x 7 x 1.3 (inches)
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PCF Setup