

Pulse Compressor

Calmar's Pulse Compressors shorten transform-limited picosecond pulses to femtosecond pulse widths, providing researchers with an essential instrument for characterizing the femtosecond time response of opto-electronics devices and communication systems.

Pulse compression also increases pulse power, and Calmar's Pulse Compressors are capable of providing peak output powers in excess of 20 W, and average pulse powers up to 100 mW.

The sophisticated design of the Pulse Compressors gives users the flexibility to use only the integrated EDFA when pulse amplification is required without pulse compression.

Configuration and operation of Calmar's Pulse Compressor is quick and simple.



- Pulse compression to 1/12 input pulse width
- Post-compression spectral widths > 8 nm
- Post compression output powers 100 mW
- Pedestal after compression < 3%
- Wavelength range 1545 - 1560 nm
- Easy configuration and operation
- Long term stability

Optional Upgrades

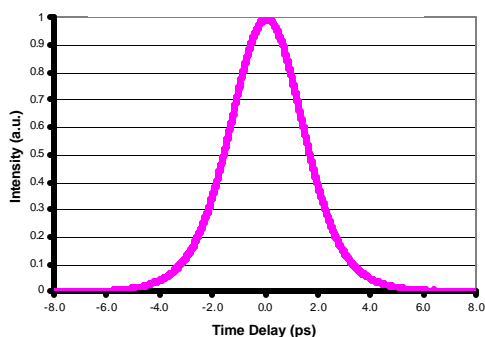
- Custom pulse compression response

Technical Specifications

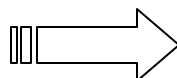
Model Number	PCS-1	PCS-2
Pulse Width Pre-Compression (ps)	3	1.5
Pulse Width Post-Compression (fs)	250	300
Input Wavelength Range (nm)	1545 - 1560	1545 - 1560
Input Repetition Rate Range (GHz)	2 - 20	10 - 50
Spectral Width (nm)	> 8.0	> 7.0
Output Power (mW)	100 @ 20 GHz	100 @ 50 GHz
Pedestal (%)	< 3	< 3
Operating Temp (°C)	5 - 40	5 - 40
Operating Voltage (V)	85 - 264 AC	85 - 264 AC
Dimensions (cm)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)

Specifications are subject to change without notice - 8/2003

Pre-Compression

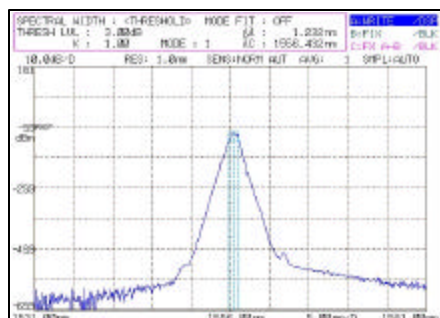
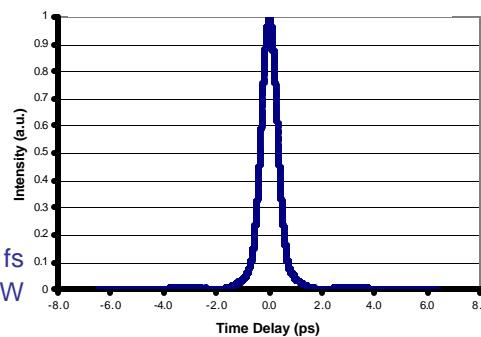


Pulse Width = 2.3 ps
Optical Power = 30mW

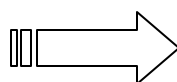


Pulse Width = 350 fs
Optical Power = 100 mW

Post-Compression



Spectral Width = 1.2 nm FWHM



Spectral Width = 9.8 nm FWHM

