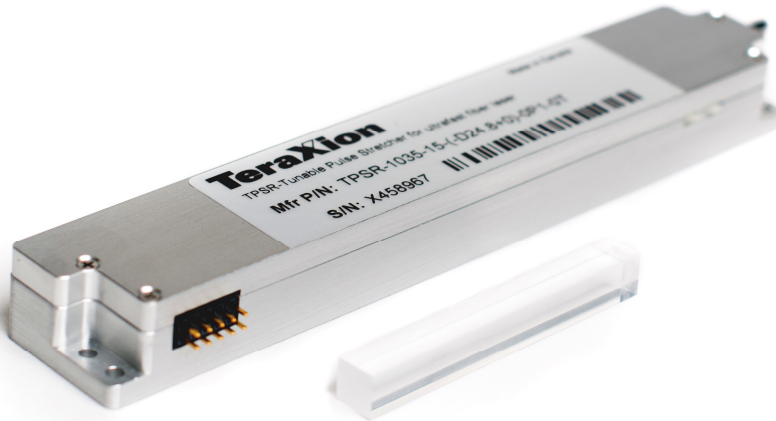


CM-V – CHIRPED MODULE WITH VBG COMPRESSOR

The PowerSpectrum™ – Chirped Module for Ultrafast Laser combines TeraXion's Tunable Pulse Stretcher and a VBG compressor.



Each PowerSpectrum™ – CM-V is paired in-house to a specific volume Bragg grating (VBG) compressor, greatly improving the robustness of the laser through simpler and fewer optics alignments at the compression stage.

Its flexible software options make it easy to integrate within any design and allow for a fully electronic calibration of laser systems, resulting in shorter cycle times, increased throughput and lower operating costs.

Features

- Factory-paired to the VBG
- Electronic pulse duration tuning up to 50 ps
- Robust design
- High order dispersion tuning
- Smallest pair in the industry
- RoHS Compliant

Benefits

- Virtually eliminate hardware alignment servicing
- Actively compensate self-phase modulation
- Increase laser versatility
- Lower operating costs
- Reduce laser footprint

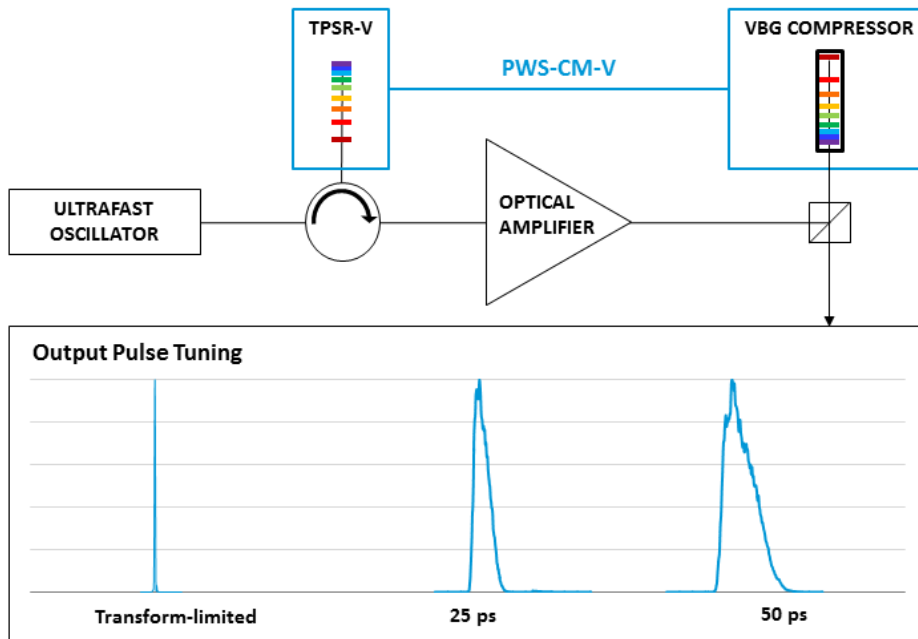
General Specifications

Parameters	Specifications
Center Wavelength ⁽¹⁾	1 μm band
Minimum Input Pulse Duration	≥ 150 fs
FBG Spectral Shape ⁽²⁾	Customizable
Total Stretching Window	≤ 500 ps
Volume Bragg Grating Compressor Matching	GD Function and phase error matching
Pulse Tuning	From Transform-limited up to 50 ps
Dispersion Tuning	D ₂ , D ₃ and D ₄
Fiber Type	PM
Tunable Pulse Stretcher Dimensions	14 x 22 x 130 mm
Control	USB / I ² C
Volume Bragg Grating Diffraction Efficiency	85 %
Volume Bragg Grating Dimensions	5 x 5 x 50 mm

(1) Other wavelengths available upon request

(2) Amplifier gain bandwidth enhancement available upon request

Chirped-Pulse Amplification with a VBG Compressor



Ordering information

For orders, questions, specific requirements or to learn more about TeraXion's products, contact us at

info@teraxion.com

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