

WaveShift Series of FBG Reflectors for Raman Fiber Lasers

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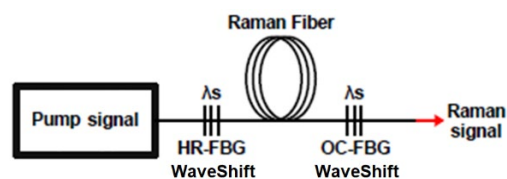
TeraXion's WaveShift series offer excellent performances in terms of wavelength accuracy and matching, insertion losses, and power handling.

Raman fiber lasers are used for generating high-power outputs at specific wavelengths that are quite challenging to produce using rare earth-doped fibers such as laser pumping, medical, spectroscopy, scientific, telecommunications, etc.

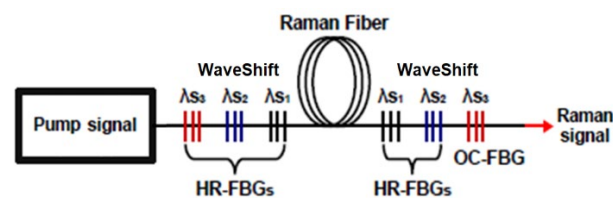
Advantages

- High wavelength accuracy
- High reflectivity
- High side mode suppression ratio (SMSR)
- Low insertion loss
- Custom wavelengths available

Typical Application



Single Raman Shift Typical Configuration



Cascaded Raman Typical Configuration

General Specifications

Optical Parameters	Specification	Units
Center wavelength (CWL _{pass}) at room temperature ⁽¹⁾	1100 to 1800	nm
Center wavelength tolerance	± 0.2	nm
Reflectivity @ CWL	10 to 99.5	%
Reflection Bandwidth	0.05 to 2	nm
Side Mode Suppression Ratio (SMSR)	≥ 20 ⁽²⁾	dB
Wavelength mismatch	≤ 0.2	nm
Maximum signal power	Up to 25 ⁽³⁾	W
Wavelength referenced to	Air	
Mechanical parameters		
Fiber type	SM or PM	
Pigtail Length (input side)	≥ 1	m
Pigtail Length (output side)	≥ 1	m
Package type	Recoated or TeraXion's heat dissipation package	
Product compliance		
RoHS compliant	Yes	

(1) Room temperature = 20 °C to 23 °C

(2) For reflectivity higher than 20%

(3) Higher power available depending on fiber types. Contact TeraXion for details

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TeraXion

An indie Semiconductor Company

teraxion.com
 2716 Einstein Street
 Quebec, Quebec, CANADA G1P 4S8
 +1 (877) 658-8372 / info@teraxion.com