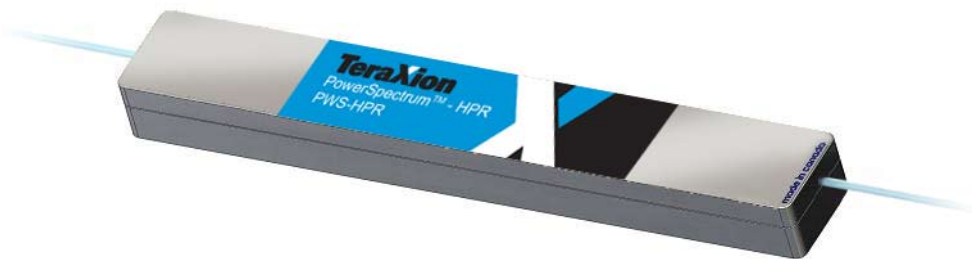


PowerSpectrum™-HPR

TeraXion

High Power Reflector for Fiber Lasers



The new PowerSpectrum™-HPR is a family of high power Fiber Bragg Grating based reflectors especially designed for Fiber Lasers.

In a high power Fiber Laser system, the high and low reflectors are mission critical elements that have a significant impact on the system performance and reliability. This is why TeraXion's "no compromise" approach in the design and manufacturing of the PowerSpectrum™-HPRs make them the best overall devices to use when it's time to make high quality Fiber Laser systems. TeraXion takes great care in optimizing the design and the manufacturing process, to guarantee a long life expectancy and sustained performances.

- › 1020 nm to 2200 nm center wavelength
- › 0.1 to 5.0 nm pass band
- › 5.0 to 99.9% back reflection
- › 3 levels of maximum optical power: 50 W, 200 W or 800 W
- › Flat top or Gaussian profile
- › 100,000 hours life expectancy
- › Less than 1% pump and signal losses

Benefits

- › Optimized heat dissipation
- › Excellent performances
- › Outstanding reliability
- › Best in class quality/price ratio

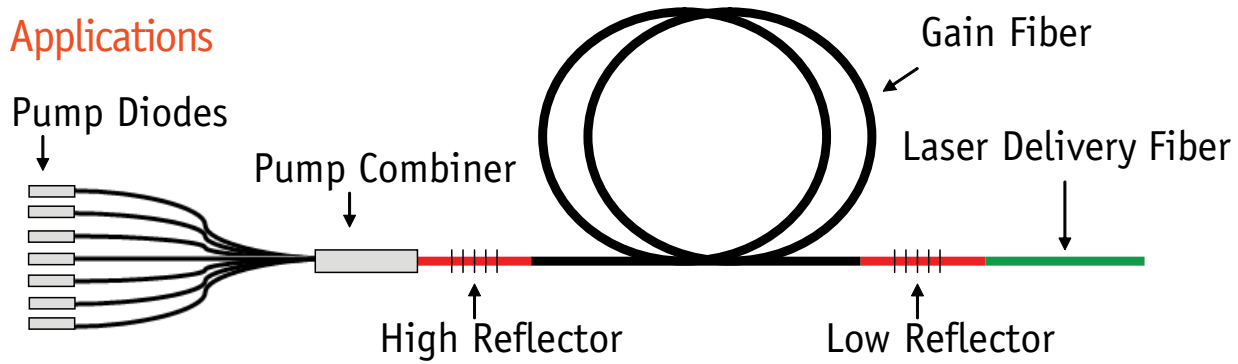


光技術をサポートする
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<http://www.optoscience.com>

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Applications

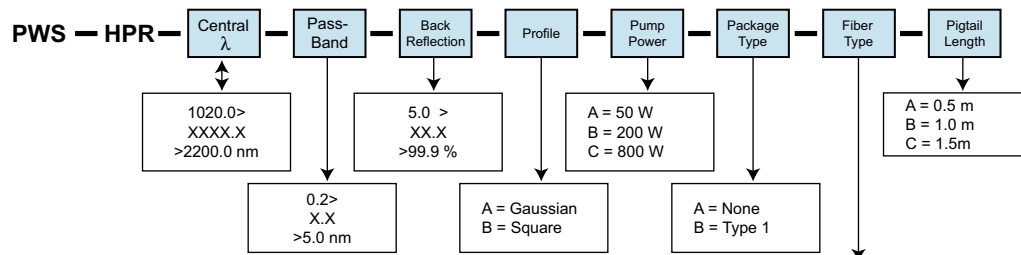


Specifications*

Parameter	Attribute	Value	Unit
Center wavelength	Range	1020.0-2200.0	nm
	Precision @ 20°C	±0.2	nm
	Maximum mismatch between low reflector and high reflector @ 20°C	±0.2	nm
	Maximum long term drift	50	pm for 5 years
	Maximum Temp. dependence	7 to 14	pm per °C
Passband	Range	0.1-5.0	nm
	Precision @ 20°C	0.1	nm
	Profile	Gaussian or Square	
Back reflection	Range	5.0-99.9	%
	Resolution	1	%
Optical power handing	Maximum combined pump and signal power (Numerical aperture < 0.46)	50, 200 or 800	W
	Maximum combined pump and signal losses (Numerical aperture < 0.46)	1	%

*Preliminary specifications subject to change.

Ordering Information



- S1: Double Clad, Photosensitive, Germanium Doped Fiber, 10um core, 125um cladding, NA: 0.15(core), 0.46 (cladding)
- S2: Double Clad, Photosensitive, Germanium Doped Fiber, 6um core, 125um cladding, NA: 0.14(core), 0.46 (cladding)
- S3: Double Clad, Relay Fiber, 10um core, 125um cladding, NA: 0.08(core), 0.47 (cladding)
- S4: Double Clad, Relay Fiber, 6um core, 125um cladding, NA: 0.08(core), 0.47 (cladding)
- L1: Double Clad, Photosensitive, Germanium Doped Fiber, 10um core, 400um cladding, NA: 0.06(core), 0.46 (cladding)
- L2: Double Clad, Photosensitive, Germanium Doped Fiber, 20um core, 400um cladding, NA: 0.06(core), 0.46 (cladding)

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