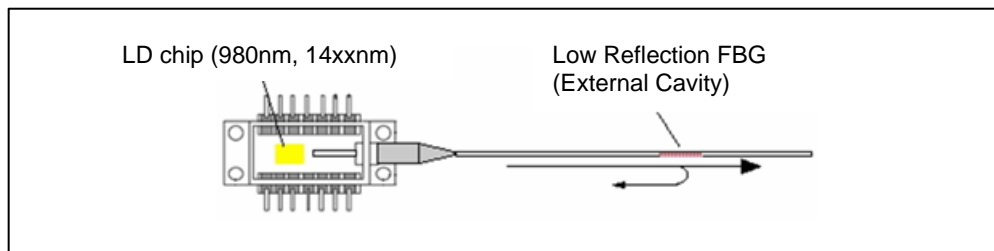


# Optical Fiber Devices

Fiber Brag Grating	Pump LD Wavelength Stabilizer
Fused Coupler	Optical Fiber Coupler
	Polarization Beam Combiner



## Pump LD Wavelength Stabilizer



Pump LD wavelength stabilizer is used for external cavity of pump Laser Diode. 980nm and 1420-1490nm wavelength ranges are available.

### Features

- Compact Size (Same diameter as fiber itself)  
\*FBG portion is re-coated by UV resin.
- High reliability (Comply with GR-1209/1221 requirement)
- Polarization Maintaining (Optional)

### Application

- 980nm LD stabilize (EDFA)
- 14xxnm LD stabilizer (Raman amplifier, EDFA)

### Specification example

Parameters	Unit	Performance
Wavelength	nm	980 / 14xx wavelength band (Other wavelength is available)
Peak Reflectivity	%	1-15
Bandwidth (Full width half maximum)	nm	0.5-3.0
Spectral SLSR (Side Lobe Suppression ratio)	dB	> 10
Insertion Loss	dB	< 0.2
Center wavelength shift by temperature change	nm/°C	0.008 @980 nm / 0.013 @1480 nm (Typ.)
Operating Temperature	°C	0-70
Storage Temperature	°C	-20-+80
Fiber diameter and coating	—	250 $\mu$ m UV cured acrylate resin
Fiber type	—	Fujikura SM (Corning® SMF-28® compatible) Fujikura PANDA Fiber (SM-98P, SM-14P) Corning® HI1060 / Compatible
Packaging	—	Re-coated (250 $\mu$ m)



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## Optical Fiber Coupler



Fujikura Optical Fiber Coupler is qualified with Telcordia GR-1221-CORE and GR-1209-CORE.

### Features

- High reliability
- Low loss
- Low PDL
- Coupling ratio : 2%-50% (Available to adjust)

### Application

- Submarine repeater
- Fiber Laser



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**Polarization Beam Combiner**

Fujikura Polarization Beam Combiners are produced by Fujikura fused taper technology. Fujikura PBC is qualified with Telcordia GR-1221-CORE and GR-1209-CORE.

**Features**

- Low loss
- High reliability

**Application**

- Combiner for pump LD



Contact us