Polarization Beam Combiner

POLA-MUX®

Features

- ✧ Low Insertion loss
- ✧ High combining efficiency
- ✧ Telcordia GR-1221-CORE and GR-1209-CORE qualified

Application

- ✧ Pump LDs combining in EDFA and PM EDFA
- ✧ Raman LDs combining in Raman Amp.

PBC for EDF AMP.

Item		1480nm region		980nm region	
Insertion Loss[1] (dB) Maximum	Axis	±10nm	±20nm	±5nm	±10nm
	SLOW	0.4	0.4	0.3	0.3
	FAST	0.8	1.1	0.7	0.8
	FAST Av. (information only)	(0.5)	(0.6)	(0.45)	(0.5)
Return loss[2]		≥50dB		≥43dB	
Max Power handling		1W		1W	
Operating Temperature		0 to 70°C		0 to 70°C	
Storage Temperature		-40 to 85°C		-40 to 85°C	
Configuration		2x2 or with termination fiber		2x2 or with termination fiber	
Fiber Type (input & output)		Fujikura PANDA fibre for 1550nm		Fujikura PANDA fibre for 980nm	
Standard Lead Fiber length		1m		1m	
Main Body size		ϕ 3.0mm L 65mm		ϕ 3.0mm L 65mm	

1. Measured at room temperature
2. Measured with 2 x 2 configuration with termination fiber spliced on P3

PBC for Raman Amp.

Parameter		Unit	
Center Wavelength Range[1]		nm	1420 to 1510
Operating Wavelength Range		nm	+/-2
Insertion Loss (Fast axis)[2]	Typ.	dB	0.3
	Max.	dB	0.5
Insertion Loss (Slow axis)[2]	Typ.	dB	0.2
	Max.	dB	0.4
Port Configuration			2 x 2
Return Loss[3]	Min.	dB	55
Directivity	Min.	dB	55
Crosstalk[2]	Typ.	dB	-20
	Max.	dB	-17
Temperature Dependent Loss	Typ.	dB	0.1
Fiber type			Fujikura PANDA fiber (250μm)
Fiber Length (standard)		m	> 1
Package Dimensions (dia. X L)		mm	3.0(dia.)x 65(L)
Operating Temperature		degC	0 to 70
Storage Temperature		degC	-40 to 85

1. Center wavelength of PBC can be customized for different applications
2. Measured at room temperature
3. Measured with 2 x 2 configuration with termination fiber spliced on P3

Fujikura

916-0204-003-03

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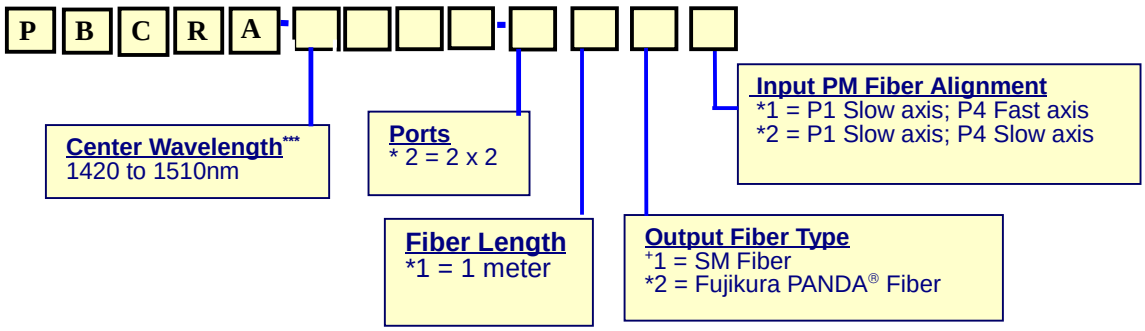
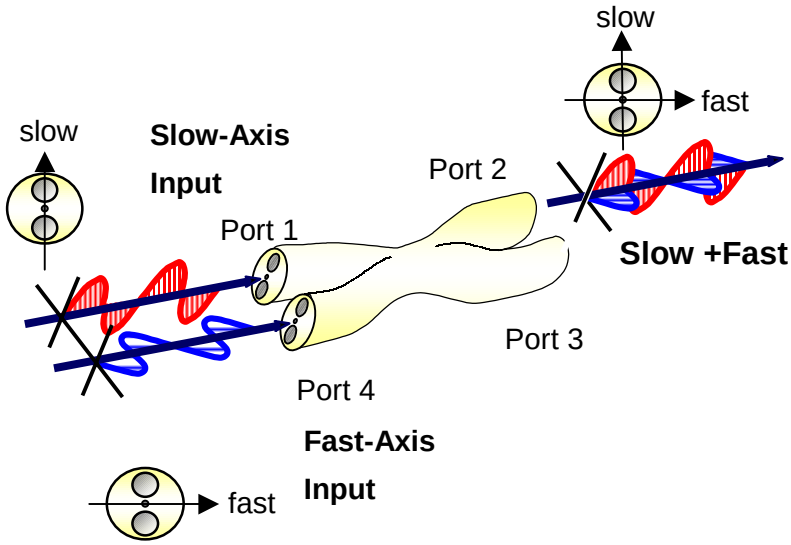
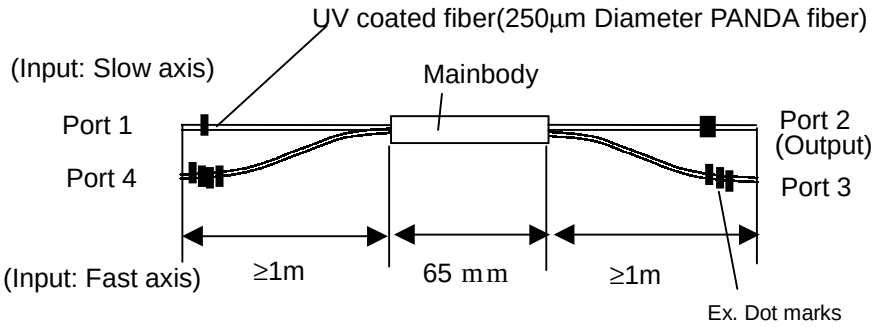
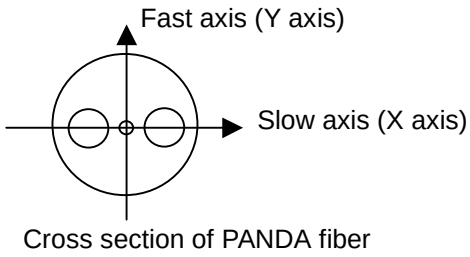
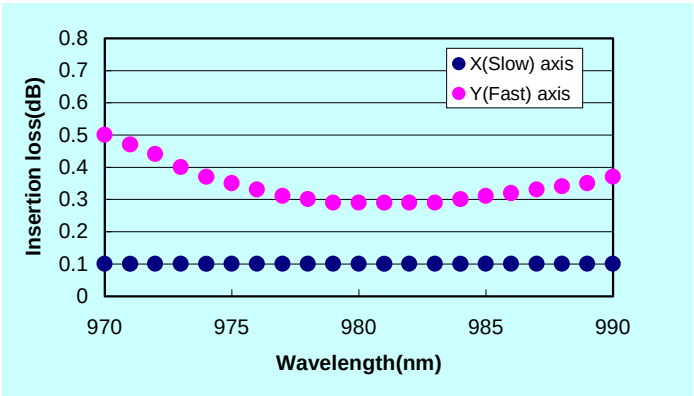
POLA-MUX for Raman Amp.











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