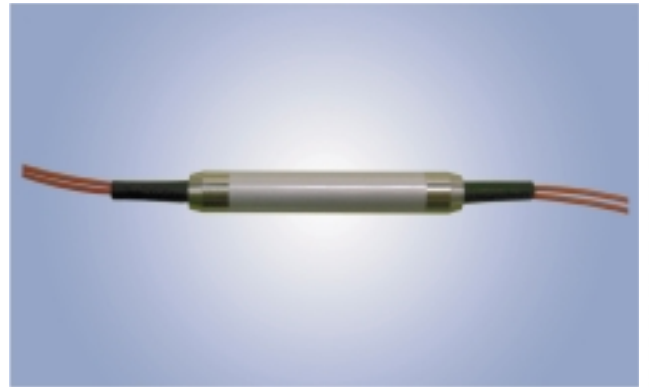




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# Fused Polarization Maintaining Couplers

Fused Polarization Maintaining (PM) Coupler features low insertion loss, high return loss, high extinction ratio and environmentally stable.



## Applications

- Test Equipment
- Raman Amplifier
- Erbium-Doped Fiber Amplifier
- Sensor System

## Features

- Ultra Low Insertion Loss
- High Return Loss
- High Extinction Ratio
- Accurate Coupling Ratio
- Wide Bandwidth
- Environmentally Stable



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## SPECIFICATIONS

### Fused Polarization Maintaining Couplers at 850~1550nm

Parameter	Values				Units	
Operating Wavelength	850	980, 1060, 1310 or 1550	1550		nm	
Operating Bandwidth	+/-15	+/-15	+/-15	+/-40	nm	
Excess Loss	<0.4	<0.2	<0.5	<0.5	dB	
Polarization Extinction Ratio	>20	>20	>20	>20	dB	
Coupling Ratio	1/99 ~ 50/50				--	
Insertion Loss	50/50	<3.6/3.6	<3.4	<3.8	<3.8	dB
	40/60	<4.6/2.8	<4.4/2.6	<4.9/3.0	<4.8/2.9	dB
	30/70	<5.9/2.1	<5.7/1.9	<6.9/2.5	<6.7/2.3	dB
	20/80	<7.8/1.4	<7.6/1.2	<9.0/1.8	<8.3/1.5	dB
	10/90	<11.3/0.9	<11.0/0.65	<12/1.4	<11.8/1.0	dB
	5/95	<14.4/0.7	<14.2/0.4	<16.0/1.2	<15/0.7	dB
	2/98	<18.7/0.6	<18.5/0.25	<20/0.9	<19.5/0.6	dB
	1/99	<21.7/0.5	<21.5/0.2	<23/0.8	<22.5/0.5	dB
Directivity	>55				dB	
Operating Temperature	-20 ~ +70				°C	

\*Other specifications can be made on customer request.

\*IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower for each connector added.

\*The PM fiber and the connector key are aligned to the slow axis.

## ORDERING CODES

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Port	Code	Wavelength	Code	Coupling Ratio	Code	Working Axis	Code
1x2	12	850 nm	085	50/50	50	Fast axis blocked	F
Specify	XX	980 nm	098	40/60	40		
		1064 nm	106	30/70	30		
		1310 nm	131	20/80	20		
		1550 nm	155	Specify	XX		

Lead Types	Code	Connector Type	Code
250 μm bare fiber	25	No Connectors	NC
900 μm loose tube	90	FC/PC	FP
3 mm loose cable	3	SC/PC	SP
		FC/APC	FA
		SC/APC	SA
		Others	XX

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