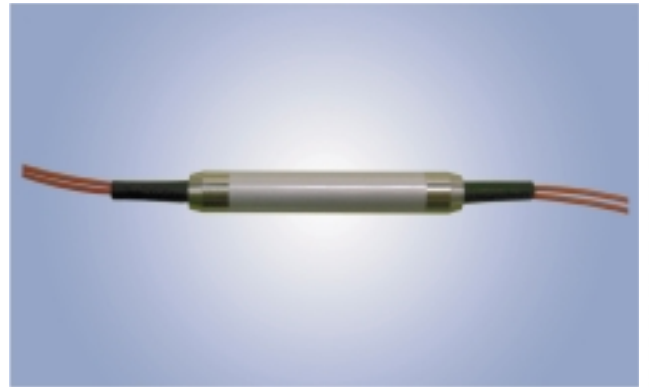




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Polarization Maintaining Couplers

The Polarization Maintaining (PM) Coupler Provides optical signal splitting with accurate tap ratio while preserving the state of polarization. By combining thin film filter technology and PM collimators, the PM coupler features has 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

Polarization Maintaining Couplers at 1600&1690nm

| Parameter | Values | | Units |
|----------------------------|------------------------------|---------------------------|-------|
| Operating Wavelength Range | 1600&1690 | | nm |
| Configuration | 1 x 2 | 2 x 2 | -- |
| Max. IL | 4.2(Input 1 to Output) | 4.85(Input 1&2 to Output) | dB |
| Max. IL | 4.2(Input 2 to Output) | 14.4(Input 1&2 to Tap) | dB |
| Min. Return Loss | 50 | | dB |
| Min. Extinction Ratio | 20 | | dB |
| Max. Optical Power (CW) | 300 | | mW |
| Max. Tensile Load | 5 | | N |
| Operating Temperature | -5 to +70 | | °C |
| Storage Temperature | -40 to +85 | | °C |
| Fiber Type | PM Panda fiber for all Ports | | -- |

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

*Connector key is aligned to slow axis.

**Remark: 1x2

Input 1 to Output: 1600nm slow axis in, slow axis out

Input 2 to Output: 1690nm slow axis in, slow axis out

**Remark: 2x2

Output and Tap are slow aligned to Input 1 & Input 2

ORDERING CODES

OLCPL - P - [] - [] - [] - [] - [] - []

| Port | Code | Wavelength | Code | Coupling Ratio | Code | Working Axis | Code |
|------|------|--------------|------|----------------|------|-------------------|------|
| 1x2 | 12 | 1600&1690 nm | 6069 | 50/50 | 50 | Fast axis blocked | F |
| 2x2 | 22 | Specify | XX | 40/60 | 40 | | |
| | | | | 30/70 | 30 | | |
| | | | | 20/80 | 20 | | |
| | | | | 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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