Opto-Link
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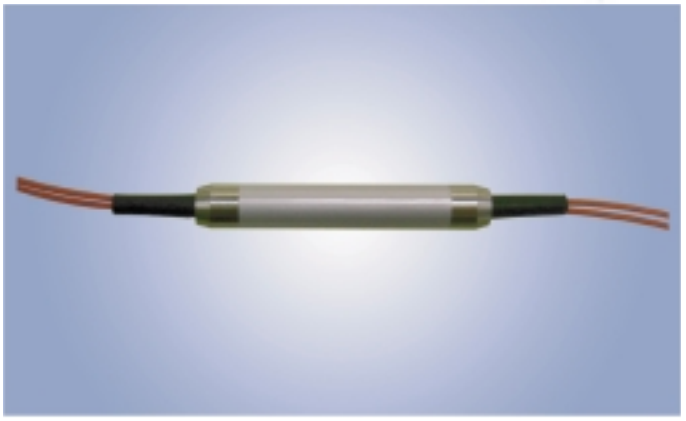
# Polarization Beam Combiner / Splitter

The polarization beam combiner / splitter is a compact lightwave component that combines two orthogonal polarization signals into the output fiber. This device has typical configuration uses two PM fibers for the input and the SM fiber for the output. It can also be used as a beam splitter.



## Applications

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

## Features

- Low Insertion Loss
- High Return Loss
- High Extinction Ratio
- Environmentally Stable

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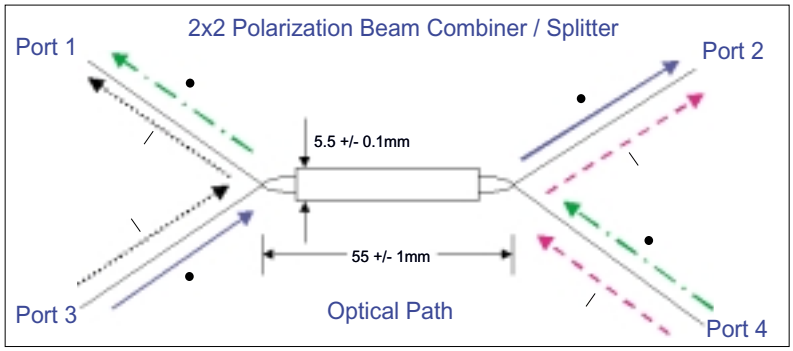
# SPECIFICATIONS

## Polarization Beam Combiner / Splitter at 1310nm,1480nm,1550nm or 1064nm

| Parameter | Values | Units |
|---|---|---|
| Center Wavelength | 1310, 1480,1550 or 1064 | nm |
| Operating Wavelength Range | +/-40 | nm |
| Insertion Loss# | 0.6 (Typ), 0.8 (Max) | dB |
| Min. Extinction Ratio (Splitter Only) | 22 | dB |
| Min. Return Loss | 50 | dB |
| Max. Optical Power (Continuous Wave) | 500 | mW |
| Fiber Type | PM Panda Fiber on Port 1 and 2, SMF-28 or PM Panda Fiber on Port 3 and 4 | -- |
| Max. Tensile Load | 5 | N |
| Operating Temperature | -5 to +70 | °C |
| Storage Temperature | -40 to +85 | °C |

*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.
#Insertion Loss measured for Port 3 to Port 1 and Port 2 at slow axis, Port 4 to Port 1 and Port 2 at fast axis.




# ORDERING CODES

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| Port | Code |
|---|---|
| 2x2 | 22 |

| Wavelength | Code |
|---|---|
| 1064 nm | 106 |
| 1310 nm | 131 |
| 1480 nm | 148 |
| 1550 nm | 155 |
| Others | XX |

| Fiber Types | Code |
|---|---|
| 250 µm Panda fiber | 25 |
| 400 µm Panda fiber | 40 |
| 900 µm loose tube | 90 |
| Others | XX |

| Fiber Type on Port 3 | Code |
|---|---|
| SMF -28 | SM28 |
| Slow axis align 45degree to port 1 | S145 |
| Slow axis align to port 1 | S1 |
| Others | XX |

| Fiber Length | Code |
|---|---|
| 0.75m | 75 |
| Others | XX |

| Connector Type | Code |
|---|---|
| No Connector | NC |
| FC/PC | FP |
| SC/PC | SP |
| FC/APC | FA |
| SC/APC | SA |
| LC/PC | LP |
| MU/PC | MP |
| Others | XX |

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