

1550nm 1xN PM PLC Splitter

1550nm 1xN Polarization Maintaining (PM) Planar Lightwave Circuit (PLC) is a fiber optic component built with silica optical waveguid technology, it's used to split the signal optical power with even ratio where the polarization maintaining status is needed, it's widely applied in fiber optic sensor, fiber optic gyroscope and coherent communication field.

Application:

Fiber Optic Sensor
Fiber Optic Gyroscope
Coherent Communication
Optical Power Distribution

Features:

High Extinction Ratio
Compact Package
Low Insertion Loss
High Reliability



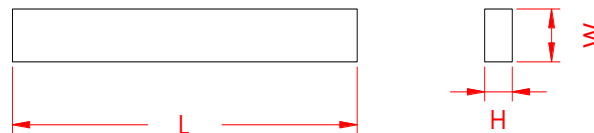
Specification:

| Parameter | Symbo | Value | | | | | | Unit |
|--------------------------------|----------------------|----------------|--------|--------|---------|---------|----------|------|
| Configuration | | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 | - |
| Operating Wavelength | λ | 1550±40 | | | | | | nm |
| Max. Insertion Loss | IL | 4.0 | 7.4 | 10.7 | 13.9 | 17.2 | 21.3 | dB |
| Max. Insertion Loss Uniformity | | 0.4 | 0.6 | 1.0 | 1.4 | 1.6 | 2.0 | dB |
| Min. Extinction Ratio | ER | 18 | 18 | 18 | 16 | 16 | 16 | dB |
| Max. Wavelength Dependent Loss | WDL | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | dB |
| Package Dimension | For 250um Bare Fiber | 40x4x4 | 40x4x4 | 40x4x4 | 50x7x4 | 50x7x4 | 60x12x4 | mm |
| | For 900um Loose Tube | 60x7x4 | 60x7x4 | 60x7x4 | 60x12x4 | 80x12x6 | 100x40x6 | mm |
| Min. Directivity | | 50 | | | | | | dB |
| Min. Return Loss | RL | 50 | | | | | | dB |
| Fiber Type | | PM Panda fiber | | | | | | - |
| Max. Tensile Load | | 5 | | | | | | N |
| Max. Optical Power (CW) | P | 500 | | | | | | mW |
| Operating Temperature | T | -5~75 | | | | | | °C |
| Storage Temperature | T | -40~85 | | | | | | °C |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Drawing



Ordering Information (Part Number):

PMPLC-**WWW**-**PPP**-**J**-**LL**-**CC**

| WWW | PPP | J | LL | CC |
|---------------|---------------|----------------------|--------------|-------------|
| Wavelength | Port | Fiber Jacket | Fiber length | Connector |
| 1310 - 1310nm | 102 - 1x2 | B - 250um Bare Fiber | 05 - 0.5m | NE - None |
| 1550 - 1550nm | 104 - 1x4 | 9 - 900um Loose Tube | 08 - 0.8m | FA - FC/APC |
| | 108 - 1x8 | 2 - 2.0mm Loose Tube | 10 - 1.0m | FU - FC/UPC |
| | 116 - 1x16 | 3 - 3.0mm Loose Tube | 15 - 1.5m | SA - SC/APC |
| | 132 - 1x32 | | 20 - 2.0 | SU - SU/APC |
| | 164 - 1x64 | | SS - Specify | LA - LC/APC |
| | SSS - Specify | | | LU - LC/UPC |
| | | | | |