

1x2(2x2) Ultra-Low PDL Narrowband Splitter



Product Features

- Ultra-Low PDL
- Low Insertion Loss
- High Directivity
- Stable and Reliable

Product Applications

- Optical Communication System
- Optical Testing System
- Optical Fiber Sensor
- Optical Power Distributor

| Specifications | | Splitting Ratio: 50:50 | | | |
|-----------------------|---------|------------------------|---|----------|---------|
| Parameter | Unit | Premium | A grade | Premium | A grade |
| Port Configuration | | 1x2 or 2x2 | | | |
| Central Wavelength | nm | 1310~2000 | | 780~1064 | |
| Bandwidth | nm | ±10 | | ±10 | |
| Insertion Loss | Max. dB | 3.4 | 3.6 | 3.4 | 3.6 |
| Excess Loss | Typ. dB | 0.07 | 0.1 | 0.07 | 0.1 |
| Uniformity | Max. dB | 0.6 | 1.0 | 0.6 | 1.0 |
| PDL | Max. dB | 0.03 | 0.05 | 0.06 | 0.08 |
| Return Loss* | Min. dB | 55 | 50 | 55 | 50 |
| Operating power | Max. W | 5 | | | |
| Operating Temperature | °C | -40 to +85 | | | |
| Storage Temperature | °C | -50 to +85 | | | |
| Package Type | mm | S6 | Ø3x54: for bare fiber | | |
| | | S8 | Ø3x70: for 0.9mm loose tube | | |
| | | M1 | 9x16x90: for 0.9mm loose tube or 2mm cable or 3mm cable | | |

*Test at central wavelength only. There would be an unused termination port around 20cm for 1x2 version.

Splitting Ratio & Insertion Loss Conversion Table

| Splitting Ratio | Maximum Insertion Loss (dB) | | | |
|-----------------|-----------------------------|---------------|---------------|---------------|
| | Premium | | A grade | |
| | Output Port 1 | Output Port 2 | Output Port 1 | Output Port 2 |
| 50:50 | 3.4 | 3.4 | 3.6 | 3.6 |
| 60:40 | 2.5 | 4.4 | 2.8 | 4.8 |
| 70:30 | 1.8 | 5.6 | 2.0 | 6.1 |
| 80:20 | 1.2 | 7.5 | 1.3 | 8.0 |
| 90:10 | 0.6 | 10.8 | 0.8 | 12 |
| 95:5 | 0.4 | 14.6 | 0.5 | 18.4 |
| 96:4 | 0.3 | 16.0 | 0.4 | 19.0 |
| 97:3 | 0.3 | 17.5 | 0.4 | 19.5 |
| 98:2 | 0.2 | 19.0 | 0.3 | 20.0 |
| 99:1 | 0.2 | 21.5 | 0.3 | 22.0 |

Ordering Information

| L | N | S | | | | | | | | |
|--|----------------|--|------------------------|----------------------|---|--|--|--|--|--|
| Wavelength | Structure | Splitting Ratio | Grade | Package | Fiber Type | Pigtail | Fiber Length | Connector | | |
| 1=1625nm 2=1990nm 3=1570nm 4=1550nm 5=1480nm 6=1475nm 7=1310nm 8=1064nm 9=980nm A=850nm L=780nm P=2000nm S=Specify | 1=1x2 2=2x2 | 99=99:1 98=98:2 97=97:3 96=96:4 95=95:5 90=90:10 80=80:20 70=70:30 60=60:40 ... 50=50:50 | P=Premium A=A grade | 5=S6 7=S8 D=M1 | 1=G652 or Equivalent 5=980-20 6=SM1060 7=SM1060 FLEX 8=980-16 9=SM780 H=SM1950 L=Large mode area fiber | S=250µm bare fiber M=0.9mm loose tube L=3mm cable R=2mm cable | 0=0.5m 1=0.75m 2=1.0m 3=1.5m 4=2.0m S=Specify | 0=None 1=F C/PC 2=F C/SPC 3=F C/APC 4=SC/SPC 5=SC/APC 6=ST 7=F C/U/PC 8=SC/U/PC 9=MU A=LC/PC B=SC/PC C=LC/U/PC D=LC/APC | | |

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are before connectors and are subject to change without notice.
3. All data are measured at central wavelength at room temperature.