

1x2(2x2) Polarization-Insensitive Fused PM Fiber Splitter (Mixer)



Product Features

- Operating on both Fast and Slow Axis
- Low Excess Loss
- Polarization-Insensitive
- High Power Handling
- Telcordia GR-1221 Compliant Test

Product Applications

- Optical Amplifier
- Power Monitoring
- Coherent Communication
- Fiber Gyroscope

Specifications

| Parameter | Unit | Premium | A grade | Premium | A grade | |
|-------------------------------|------|---------------------|------------|------------------------|---------|-----|
| Port Configuration | | 1x2 or 2x2 | | | | |
| Central Wavelength | nm | 780, 830, 980, 1064 | | 1310, 1480, 1550, 2000 | | |
| Bandwidth | nm | ±20 | | | | |
| Excess Loss | Typ. | dB | 0.6 | 0.8 | 0.4 | 0.6 |
| Excess Loss | Max. | dB | 0.8 | 1.0 | 0.6 | 0.8 |
| Polarization Dependent Loss | Max. | dB | 0.1 | 0.2 | 0.1 | 0.2 |
| Polarization Extinction Ratio | Min. | dB | 18 | 15 | 20 | 17 |
| Return Loss* | Min. | dB | 50 | 45 | 50 | 45 |
| Directivity | Min. | dB | 55 | | | |
| Operating power | Max. | W | 2 | | | |
| Operating Temperature | | °C | -40 to +85 | | | |
| Storage Temperature | | °C | -50 to +85 | | | |
| Package Type | mm | S6 / S8 / M1 | | | | |

Above PER is for more than 10%(CR) port, it's 2dB lower for no more than 10%(CR) port, and 4dB lower for no more than 5%(CR) port.

All specifications are before connectors. PER is 2dB lower and EL is 0.2dB higher after connectors.

* Test at central wavelength only.

Splitting Ratio & Its Tolerance

| Splitting Ratio | Maximum Splitting Ratio Tolerance (%) | |
|-----------------|---------------------------------------|---------|
| | Premium | A grade |
| 99/1 | ±0.5 | ±0.6 |
| 98/2 | ±0.8 | ±1.0 |
| 95/5 | ±1.5 | ±1.7 |
| 90/10 | ±2.2 | ±2.4 |
| 80/20 | ±2.5 | ±3.0 |
| 70/30 | ±3.0 | ±3.7 |
| 60/40 | ±4.0 | ±5.0 |
| 50/50 | ±5.0 | ±7.0 |

Ordering Information

| P | I | N | S | | | | | | |
|--|----------------|---|------------------------|--|---------------|--|---|--|--|
| Wavelength | Structure | Splitting Ratio | Grade | Package | Fiber Type | Fiber Length | Connector | | |
| 4=1550nm 5=1480nm 7=1310nm 8=1064nm 9=980nm L=780nm K=830nm P=2000nm S=Specify | 1=1x2 2=2x2 | 99=99:1 98=98:2 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 with 250um bare fiber pigtail 7=S8 with 0.9mm loose tube D=M1 with 3mm cable | E=Panda fiber | 0=0.5m 1=0.75m 2=1.0m S=Specify | 0=None 1=FC/PC 2=FC/SPC 3=FC/APC 7=FC/UPC | | |

Note: 1. Central Wavelength can be customized for different applications.
2. All specifications are subject to change without notice.