

915/980nm PM WDM for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks



SPECIFICATIONS

| Parameters | Unit | Standard | High ER Type |
|--|----------------------------|---|--|
| Pass Channel Wavelength Range λ_1 | nm | 970~990 | |
| Reflective Channel Wavelength Range λ_2 | nm | 910~920 | |
| Insertion Loss over λ_1 @ Pass Channel | dB | ≤1.2 | ≤1.4 |
| Insertion Loss over λ_2 @ Reflective Channel | dB | ≤1.0 | |
| Configuration | Y Type | - | 3-port |
| | X Type | - | 4-port (2x2 WDM) |
| Isolation over λ_1 @ Reflective Channel | dB | ≥12 | |
| Isolation over λ_2 @ Pass Channel | dB | ≥25 | |
| Optical Return Loss | dB | ≥50 | |
| Extinction Ratio | dB | ≥18 | ≥20 |
| Fiber Type | - | PM850 Fiber or PM980 Fiber PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) | |
| Polarization Alignment | - | Slow Axis | |
| Fiber Tensile Load | N | 5 | |
| Max. Average Optical Power | W | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20 | |
| Max. Peak Power for pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 | |
| Operating Temperature | °C | 0~50 | |
| Storage Temperature | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | (\varnothing)5.5x35 (≤5W); (\varnothing)6.0x48 (5~10W) |
| | Metal Box | mm | (L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W) |

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
 - High ER type can only work in slow axis at pass port.

ORDERING INFORMATION (PN)

| FPWM-NN | NN - C | (C) | C -H NN | P NN - (C) | C | C | NN -CC/CCC | | | | |
|----------------|-----------------|-------------------|-------------------|------------|---------------|------------|---------------|---------------------|---------------|--------------|-------------------------|
| Ref Wavelength | Pass Wavelength | Ref. Fiber | Ref. Fiber2 | Type | Average Power | Peak Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 91=915nm | 98=980nm | P= Same Fiber | P= Same Fiber | H= High ER | 03=300mW | 01=100W | M= Metal Box | 2=PM850Fiber | B= Bare Fiber | 05=0.5m | N=Without Connector |
| | | S= Corr. SM Fiber | S= Corr. SM Fiber | Blank for | 1= 1W | 1= 1kW | Blank for SST | H=PM980Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | | | Blank for Y Type | Standard | 10=10W | 10=10kW | or >10W | E=PM1060L Fiber | 2=2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | | | | 20=20W | 20=20kW | | R=25/250 PMDC Fiber | 3=3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |