

CWDM Single Channel Device

FEATURES

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

APPLICATIONS

- Broadband Systems
- Optical Add/Drop Multiplexing
- Telecommunication Networks
- Metro/Access Networks
- CWDM Systems



SPECIFICATIONS

| Parameters | Unit | Value | |
|---|----------------------------|---|--|
| Center Wavelength | nm | 1270-1610, 1271-1611 | |
| Channel Spacing | nm | 20 | |
| Channel Passband Width | nm | +/-6.5 | |
| Configuration | D Type | 2-port Bandpass Filter | |
| | Y Type | 3-port WDM Filter | |
| Pass Channel Insertion Loss | dB | ≤0.8 | |
| Ref. Channel Insertion Loss (Only for Y Type) | dB | ≤0.5 | |
| Pass Channel Ripple | dB | ≤0.3 | |
| Pass Channel Adjacent Channel Isolation | dB | ≥30 | |
| Pass Channel Non-adjacent Channel Isolation | dB | ≥40 | |
| Ref. Channel Isolation (Only for Y Type) | dB | ≥12 | |
| Optical Return Loss | dB | ≥45 | |
| Directivity | dB | ≥50 | |
| Polarization Dependent Loss | dB | ≤0.1 | |
| Polarization Mode Dispersion | ps | ≤0.1 | |
| Fiber Type | - | SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G) | |
| Fiber Tensile Load | N | 5 | |
| Maximum Optical Power (CW) | mW | 300 | |
| Operating Temperature | °C | 0~70 | |
| Storage Temperature | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | ∅5.5x ^L 35 |
| | Metal Box | mm | ^L 120x ^W 12x ^H 10 |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 3. 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.
 4. Package size may be different for different optical power and configurations.

ORDERING INFORMATION (PN)

| FCWS-NNNN | - (C) | - (C) | (C) | C | NN | -CC/CCC |
|-------------------|------------------|---------------|------------------------|---------------|--------------|-------------------------|
| Center Wavelength | Configuration | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 1471-1471nm | D=D Type | M=Metal Box | O=10/130 DC Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 1510-1510nm | Blank for Y Type | Blank for SST | T=12/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 1550-1550nm | | | G=25/300 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| 1611-1611nm | | | Blank for SMF-28 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |