



FRM220-DWDM

DWDM Mux/DeMux

CTC Union DWDM MUX DEMUX Modules, with 100GHz channel spacing, can be used to combine or separate wavelength channels at standard ITU grid. We supply the common configuration including 4, 8, 16 channels. These DWDM modules passively multiplex the optical signal outputs from 4 or more electronic devices, and send them over a single optical fiber and then de-multiplex the signals into separate, distinct signals for input into electronic devices at the other end of the fiber optic link. All the DWDM MUX DEMUX modules provide excellent optical performance and high reliability to ease of fiber handling and power saving solution.

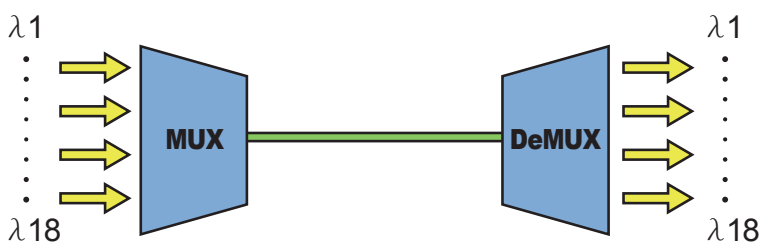
Features

- Low Optical Insertion Loss
- High channel isolation
- Low PDL
- Good channel-to-channel uniformity
- Exceptional reliability and stability
- Reliable passive WDM optical technology
- Scales easily for ring networks
- Compliance with RoHS

Specifications

| Item | 100GHz DWDM | |
|--|------------------------------------|-------|
| | Mux | DeMux |
| Type | | |
| Channel No. | 4 / 8 / 16 | |
| Center Wavelength, nm | Ch 21~60 or ITU Standard (specity) | |
| Channel Spacing, nm | 0.8 | |
| Channel Spacing, GHz | 100 | |
| Passband @0.5dB, nm | ITU ± 0.1 | |
| Insertion Loss, dB for 4 channel | ≤2.0 | |
| Insertion Loss, dB for 8 channel | ≤3.5 | |
| Insertion Loss, dB for 16 channel | ≤4.5 | |
| Adjacent Channel Isolation, dB | N/A | ≥25 |
| Non-adjacent Channel Isolation, dB | N/A | ≥35 |
| Uniformity, dB | ≤1.5 (Mux-DeMux Pair only) | |
| Directivity, dB | ≥45 | |
| Optical Input Return Loss, dB | ≥45 | |
| Polarization Dependent Loss, dB | ≤0.15 | |
| Polarization Mode Dispersion (PMD), ps | ≤0.1 | |
| Thermal Stability Drift, pm/°C | ≤1 | |
| Max. Optical Power, mW | 300 | |
| Max. Tensile Load, N | 5 | |
| Storage Temperature, °C | -40~85 | |
| Operating Temperature, °C | 0~70 | |

Application

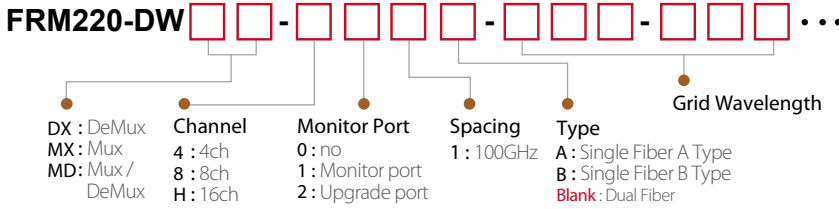


DWDM MUX must be used with DeMux on the other side

- Access networks
- Metro WDM systems
- Long haul WDM systems
- Enterprise networks
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Metro Network / Access Network / FTTH
- CATV fiber optic links

Ordering Information

| Model Name | Description |
|----------------------------|--|
| | ab → DX : DeMux, MX : Mux, MD : Mux/DeMux |
| | c → 4 : 4ch, 8 : 8ch, H : 16ch |
| FRM220-DWab-cdef-xxxx-xxxx | d → 0 : no, 1 : Monitor port, 2 : 1x Upgrade Port |
| | e → 1 : 100GHz |
| | f → A : Single Fiber A Type B : Single Fiber B Type Blank : Dual Fiber |



Order Code -100GHz Grid Wavelength (Please ✓select all the apply from below list)

| Label | Frequency (THz) | Center Wavelength (nm) | Label | Frequency (THz) | Center Wavelength (nm) |
|------------------------------|-----------------|------------------------|------------------------------|-----------------|------------------------|
| <input type="checkbox"/> C21 | 192.1 | 1560.61 | <input type="checkbox"/> C41 | 194.1 | 1544.53 |
| <input type="checkbox"/> C22 | 192.2 | 1559.79 | <input type="checkbox"/> C42 | 194.2 | 1543.73 |
| <input type="checkbox"/> C23 | 192.3 | 1558.98 | <input type="checkbox"/> C43 | 194.3 | 1542.94 |
| <input type="checkbox"/> C24 | 192.4 | 1558.17 | <input type="checkbox"/> C44 | 194.4 | 1542.14 |
| <input type="checkbox"/> C25 | 192.5 | 1557.36 | <input type="checkbox"/> C45 | 194.5 | 1541.35 |
| <input type="checkbox"/> C26 | 192.6 | 1556.55 | <input type="checkbox"/> C46 | 194.6 | 1540.56 |
| <input type="checkbox"/> C27 | 192.7 | 1555.75 | <input type="checkbox"/> C47 | 194.7 | 1539.77 |
| <input type="checkbox"/> C28 | 192.8 | 1554.94 | <input type="checkbox"/> C48 | 194.8 | 1538.98 |
| <input type="checkbox"/> C29 | 192.9 | 1554.13 | <input type="checkbox"/> C49 | 194.9 | 1538.19 |
| <input type="checkbox"/> C30 | 193.0 | 1553.33 | <input type="checkbox"/> C50 | 195.0 | 1537.40 |
| <input type="checkbox"/> C31 | 193.1 | 1552.52 | <input type="checkbox"/> C51 | 195.1 | 1536.61 |
| <input type="checkbox"/> C32 | 193.2 | 1551.72 | <input type="checkbox"/> C52 | 195.2 | 1635.82 |
| <input type="checkbox"/> C33 | 193.3 | 1550.92 | <input type="checkbox"/> C53 | 195.3 | 1535.04 |
| <input type="checkbox"/> C34 | 193.4 | 1550.12 | <input type="checkbox"/> C54 | 195.4 | 1534.25 |
| <input type="checkbox"/> C35 | 193.5 | 1549.32 | <input type="checkbox"/> C55 | 195.5 | 1533.47 |
| <input type="checkbox"/> C36 | 193.6 | 1548.51 | <input type="checkbox"/> C56 | 195.6 | 1532.68 |
| <input type="checkbox"/> C37 | 193.7 | 1547.72 | <input type="checkbox"/> C57 | 195.7 | 1531.90 |
| <input type="checkbox"/> C38 | 193.8 | 1546.92 | <input type="checkbox"/> C58 | 195.8 | 1531.12 |
| <input type="checkbox"/> C39 | 193.9 | 1546.12 | <input type="checkbox"/> C59 | 195.9 | 1530.33 |
| <input type="checkbox"/> C40 | 194.0 | 1545.32 | <input type="checkbox"/> C60 | 196.0 | 1529.55 |

Example:

FRM220 - DW M X - 4 0 1 A - C 2 1 - C 2 4

↳ (DWDM, Mux, 4ch, 100GHz, Single Fiber A Type, 1560.61, 1558.17 Grid Wavelength)

FRM220 - DW - - - - -

Description