

Flyin 4,8,16,18-Channel CWDM Mux/Demux module

Flyin Optronics' Coarse wavelength division multiplexer (CWDM Mux/Demux) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path.

Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

Applications

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Access Network



Specification

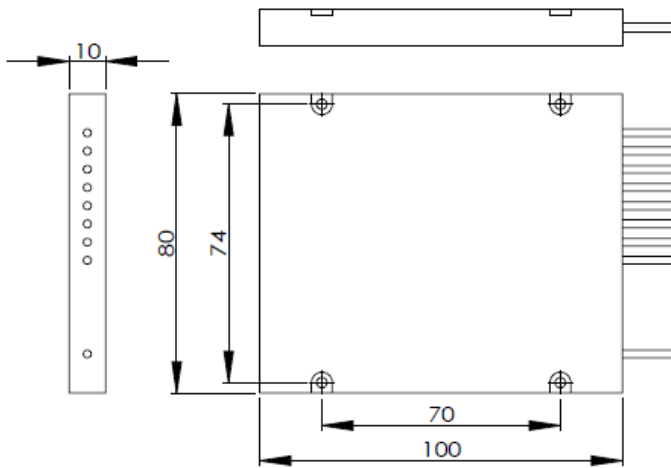
| Parameter | 4 Channel | | 8 Channel | | 16 Channel | | 18 Channel | |
|---|------------------------|-------|-----------|-------|------------|-------|------------|-------|
| | Mux | Demux | Mux | Demux | Mux | Demux | Mux | Demux |
| Channel Wavelength (nm) | 1270~1610/1271~1611 | | | | | | | |
| Center wavelength Accuracy (nm) | ±0.5 | | | | | | | |
| Channel Spacing (nm) | 20 | | | | | | | |
| Channel Passband (@-0.5dB bandwidth (nm)) | +/-7.5/+/-6.5 | | | | | | | |
| Insertion Loss (dB) | ≤1.5 | | ≤2.5 | | ≤3.5 | | ≤3.5 | |
| Channel Uniformity (dB) | ≤0.6 | | ≤1.0 | | ≤1.5 | | ≤1.5 | |
| Channel Ripple (dB) | 0.3 | | | | | | | |
| Isolation (dB) | Adjacent | | >30 | | | | | |
| | Non-adjacent | | >40 | | | | | |
| Isolation (dB) | Express with filter | | >30 | | | | | |
| | Express without filter | | >12 | | | | | |
| Inertion Loss Temperature Sensitivity (dB/°C) | <0.005 | | | | | | | |
| Wavelength Temperature Shifting (nm/°C) | <0.002 | | | | | | | |
| Polarization Dependent Loss (dB) | <0.1 | | | | | | | |
| Polarization Mode Dispersion | <0.1 | | | | | | | |
| Directivity (dB) | >50 | | | | | | | |
| Return Loss(dB) | >45 | | | | | | | |
| Maximum Power Handling (mW) | 300 | | | | | | | |

| | |
|-------------------------------------|---|
| Operating Temperature (°C) | -40~+85 |
| Storage Temperature (°C) | -40~+85 |
| Package dimension (mm) (Glass tube) | Ø5.5*25 |
| Package dimension (mm) (Steel tube) | Ø5.5*34 |
| Package dimension (mm) (ABS box) | A: L100 x W80 x H10 B: L120 x W80 x H18 C:L140 x W115 x H18 |

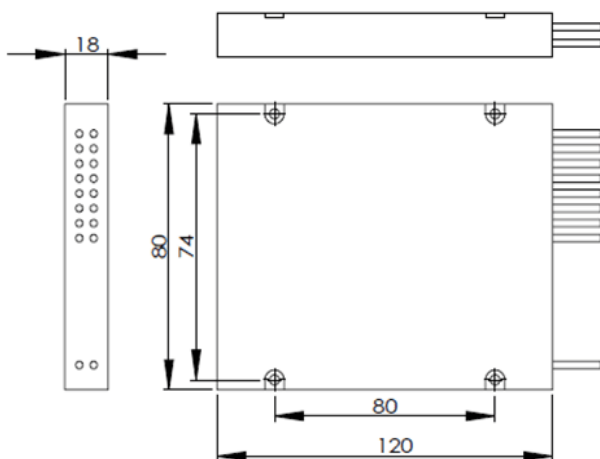
Specification may change without notice.

Above specification are for device without connectors.

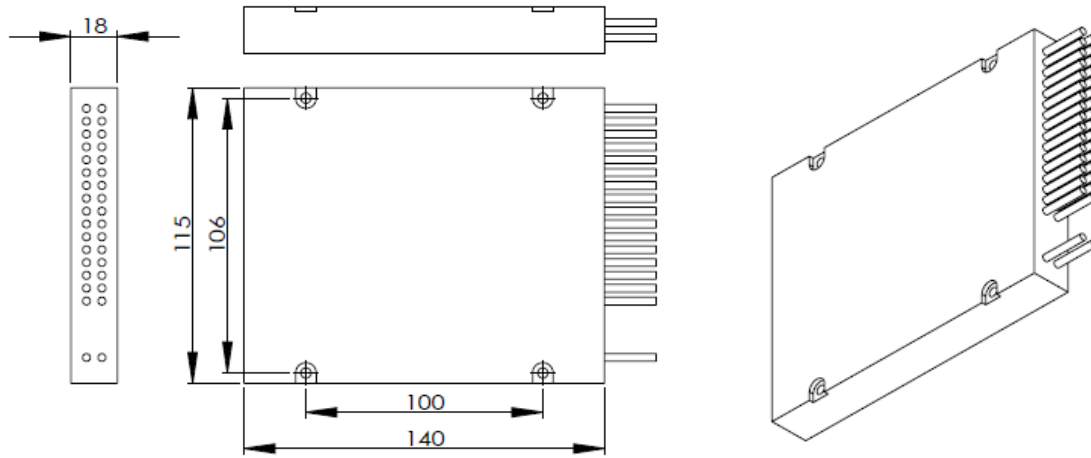
Package Dimension



A: 100X80X10 ABS box



B: 120X80X18 ABS box



C: 140X115X18 ABS box

Ordering Information

| CWDM | X | XX | X | XX | X | X | XX |
|------|-----------------|---|----------------------------|--|---|---------------------------|---|
| | Channel Spacing | Number of Channels | Configuration | 1st Channel | Fiber Type | Fiber Length | In/Out Connector |
| | C=CWDM Grid | 04=4 Channel 08=8 Channel 16=16 Channel 18=18 Channel N=N Channel | M=Mux D=Demux O=OADM | 27=1270nm 47=1470nm 49=1490nm 61=1610nm SS=special | 1=Bare fiber 2=900um Loose tube 3=2mm Cable 4=3mm Cable | 1=1m 2=2m S=Specify | 0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC S=Specify |