

Introduction:

Fiberdyne Labs specializes in custom configured, reliable, CWDM products based on customer requirements. Our high isolation, low PDL CWDMs offer high quality parameters for 1 to 18 channel solutions and can include a 1310nm upgrade port and test/monitor ports as well. Almost any connector style / port is available; LC, LC/APC, SC, SC/APC, etc. to fit into a new system or retrofit an older system and features low insertion loss.



LGX style module

Fiberdyne will package the CWDM to fit multiple applications. The field module can have either 900um or 2mm legs and any connectors or no connectors for use when fusion splicing. The LGX style module can be used as a stand-alone or can be snapped into one of our rackmount or wall mount panels. Fiberdyne's 1U high, 19" rack mount module has a convenient, sleek design and allows the technician easy access to all ports. The LGX and 1U high modules are normally manufactured with adaptor ports but can be made with 3mm pigtailed; with or without connectors.



Field module with 900um pigtailed

Features:

- Low Insertion Loss
- High Isolation, Low PDL
- High Reliability

Applications:

- CWDM System
- PON Networks
- CATV Links



1U high, 19" rack mount module

***Note:** Insertion loss specified without connectors, add 0.2dB I/L per connector

| Parameters | 1 Channel | 4 Channel | 8 Channel | 16 Channel |
|-------------------------------|-------------|-----------|-----------|------------|
| Center Wavelengths (nm) | ITU, ITU+1 | | | |
| Passband (nm) | ITU ±6.5 | | | |
| Channel Wavelength (nm) | 1270 – 1610 | | | |
| Channel Space (nm) | 20 | | | |
| Fiber Type | ITU-T G652D | | | |
| Insertion Loss* (max) | 1.0 | 1.8 | 2.8 | 4.5 |
| Isolation (dB) / Adjacent | 30 | | | |
| Isolation (dB) / Non-Adjacent | 40 | | | |
| Ripple (dB) | 0.3 | | | |
| PDL (dB) | 0.2 | | | |
| PMD (ps) | 0.1 | | | |
| RL (dB) | 45 | | | |
| Directivity (dB) | 50 | | | |
| Maximum Optical Power (mW) | 500 | | | |
| Operating Temperature | -10 to 75°C | | | |
| Storage Temperature | -40 to 85°C | | | |

| Center Wavelengths | |
|--------------------|------|
| 1270 | 1450 |
| 1290 | 1470 |
| 1310 | 1490 |
| 1330 | 1510 |
| 1350 | 1530 |
| 1370 | 1550 |
| 1390 | 1570 |
| 1410 | 1590 |
| 1430 | 1610 |

Available Packages Include: LGX, 19 Inch Rackmount, Field Modules, Custom Packaging upon request.

