

Coarse Wavelength Division Multiplexer (CWDM) Multi Channel, 4ch & 8ch

**A SELMUX™
Design**

Applications:

CWDM Systems
Metro/Access Networks
Enterprise Networks
CATV Fiber Optic Links



Features:

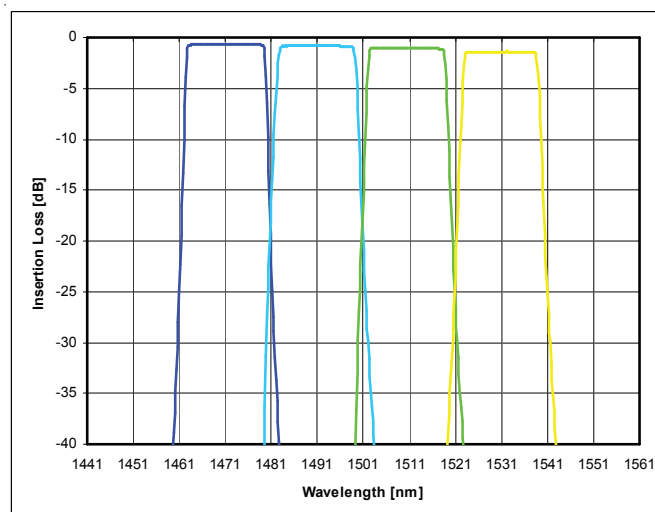
| | | |
|------------------------|---------------------------------|-----------------------------------|
| RoHS 6/6 Compliant | Flat and Wide Passband | Exceptionally Stable and Reliable |
| Low Insertion Loss | Low Polarization Dependent Loss | Telcordia GR-1221 Compliant |
| High Channel Isolation | Epoxy-Free Optical Path | Thin-Film-Filter(TFF) Based |

Description:

Based on Go!Foton's patented technology, SELMUX™ series is introduced to cover all TFF-based components using an all-glass platform for improved performance, such as lower insertion loss and higher thermal stability, with a competitive cost structure. Because of its high thermal stability, SELMUX series can offer compliance to Outside Plant (OSP) requirement upon request.

Go!Foton's Coarse Wavelength Division Multiplexing (CWDM) Mux and DeMux Modules are based on its unique TFF SELMUX technology that provides a high quality CWDM device with high channel isolation, low polarization dependent loss, flat and wide passband, and stable environmental performance. Go!Foton's TFF SELMUX products are epoxy-free in the optical path and are in compliance with RoHS 6/6.

Wavelength Spectrum:



Specifications:

| | 4ch | 8ch |
|--|--|------------------------|
| Center Wavelength (λ_c in nm) | 1471.0, 1491.0 1511.0 1531.0 1551.0, 1571.0 1591.0 1611.0 | |
| Operating Wavelength Range (nm) | 1460 ~ 1620 | |
| Passband Bandwidth (nm) | $\lambda_c \pm 6.5$ | |
| Insertion Loss (dB) | <1.5 (Prem.) <2.3 (Std.) | <2.2(Prem.) < 3.3(Std) |
| Passband Ripple (dB) | <0.5 | |
| Optical Return Loss (dB) | >45 | |
| Mux Module (dB) | Adjacent Ch. Non-Adjacent Ch. | >15 >30 |
| DeMux Module (dB) | Adjacent Ch. Non-Adjacent Ch. | >25 >45 |
| Polarization Dependent Loss (dB) | <0.2 | |
| Directivity (dB) | >55 | |
| Optical Power Handling (mW) | <500 | |
| Operating Temperature Range (°C) | 0 to 70 | |
| Storage Temperature Range (°C) | -40 to 85 | |
| Fiber Type | SMF-28e or Equivalent | |
| Fiber Length (m) | >1.0 (Standard) | |
| Package Size (mm) | Standard: (L)95 x (W)75 x (H)8 | |

All specifications are without fiber connectors

* Center Wavelength in Shortband (1270, 1290, 1310... or 1271, 1291, 1311..) are available upon request.

* LGX Box / 19' Rack Packaging option is available upon request.

Ordering Information:

| Product Category | Channel Spacing | Longest Wavelength | Connector Type |
|--|---------------------|--|--|
| CWDM - Coarse WDM Related | 9 - 20nm | 47 - 1471.0nm 49 - 1491.0nm 51 - 1511.0nm 53 - 1531.0nm 55 - 1551.0nm 57 - 1571.0nm 59 - 1591.0nm 61 - 1611.0nm | 1 - FC/SPC 2 - FC/APC 3 - SC/SPC 4 - SC/APC 5 - LC 6 - MU 0 - None |
| IL Grade P - Premium S - Standard | Shortest Wavelength | Fiber Type 1 - SMF-28e bare fiber 3 - 900um tight buffer C - ϕ 2mm Cable | Fiber Length 1 - 1 Meter (Std.) 9 - Other |
| Sub Family 01M - 4ch Mux 01X - 4ch Demux 02M - 8ch Mux 02X - 8ch Demux | | | |

Example: CWDM-P-01M-9-591-611-3-1-0

CWDM Premium Multiplexer, 1591 -1611nm, 900um Tight Buffer Fiber, 1m, No Connector

GF-S-MKT-CWMC-REV2-09-09