**FEATURES:**
- RoHS 6/6 Compliant
- Low Insertion Loss
- High Channel Isolation
- Flat and Wide Passband
- Low Polarization Dependent Loss
- Epoxy-Free Optical Path
- Exceptionally Stable and Reliable
- Telcordia GR-1221 Compliant
- Thin-Film-Filter based

**APPLICATIONS:**
- Coarse WDM Systems
- Metro Networks
- Enterprise Networks
- CATV Fiber Optic Links

**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:
The products supplied to this specification shall meet or exceed all the requirements specified herein.

OPTICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>2</th>
<th>4</th>
<th>8</th>
<th>16</th>
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</thead>
<tbody>
<tr>
<td>Operating Wavelength</td>
<td>nm</td>
<td>1460~640</td>
<td></td>
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<tr>
<td>Channel Spacing</td>
<td>nm</td>
<td></td>
<td>20</td>
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<tr>
<td>Center Wavelength</td>
<td>nm</td>
<td>1271, 1291,1311,1331,1351,1371,1391,1411,1431,1451,1471,1491,1511,1531,1551,1571,1591,1611</td>
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<tr>
<td>Passband Bandwidth</td>
<td>nm</td>
<td>≤c±6.5</td>
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<tr>
<td>CWDM Port Insertion Loss</td>
<td>dB</td>
<td>≤1.2</td>
<td>≤2.2</td>
<td>≤3.2</td>
<td>≤3.4</td>
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<tr>
<td>Passband Ripple</td>
<td>dB</td>
<td>≤0.50</td>
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<tr>
<td>Adjacent Channel Isolation</td>
<td>dB</td>
<td>≥30</td>
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<tr>
<td>Non-Adjacent Channel Isolation</td>
<td>dB</td>
<td>≥45</td>
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<tr>
<td>Polarization Dependent Loss</td>
<td>dB</td>
<td>≤0.20</td>
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<tr>
<td>Optical Return Loss</td>
<td>dB</td>
<td>≥50</td>
<td></td>
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<tr>
<td>Directivity</td>
<td>dB</td>
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<tr>
<td>Optical Power Handling</td>
<td>mW</td>
<td>≤500</td>
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<tr>
<td>Operating Temperature Range</td>
<td>°C</td>
<td>-40~85</td>
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<tr>
<td>Storage Temperature Range</td>
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<td>-40~85</td>
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<tr>
<td>Fiber Type</td>
<td></td>
<td>ITU G657A2, G657 B2 and G65D Compliant Single Mode Fiber</td>
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<tr>
<td>Port Identification</td>
<td></td>
<td>Cable Marker</td>
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<tr>
<td>Package Size</td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Cassette</td>
<td>mm</td>
<td>2ch/ 4ch: 60x35x6</td>
<td>8ch: 70x45x8</td>
<td>12ch / 16ch: 110x90x8</td>
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</tr>
<tr>
<td>LGX</td>
<td></td>
<td>2ch / 4ch / 8ch: 1-slot</td>
<td>158x130(118)x28.8(26.8)</td>
<td>12ch / 16ch: 2-slot</td>
<td>158x130(118)x57.6(56.1)</td>
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</tbody>
</table>

Notes:
1. All specifications include connector losses.
2. Uniformity is defined as loss difference between output ports.
3. Other customized channels are also available per customer’s request
4. Other package size available upon request.
Coarse Wavelength Division Multiplexer (CWDM)
Multi-Channel, 2ch, 4ch, 8ch, 16ch

Ordering Information:
WDM in Cassette

Example: CW02X9N4761314
8CH CWDM Demultiplexer with channels, 1471~1611, 900um Tight Buffer (Single Mode) with SC/APC connectors, one (1) meter

Notes:
1 Standard Fiber Type is ITU-T G657.A2/02 and G652.D.
2 Standard Package Size is 60x35x66mm for 4ch, 70x45x88mm for 8ch, 110x90x88mm for 16 and 20ch and 140x95x16mm for 40ch
3 Fiber Length tolerance is +/-0.1 meter.
4 All ports are with connector of the same type.
5 Only applicable for products which are not covered by the Standard Specification.
Coarse Wavelength Division Multiplexer (CWDM)  
Multi-Channel, 2ch, 4ch, 8ch, 16ch

Ordering Information:
WDM in Enclosure

Notes:
1 Standard Package Size is 1 slot for 4ch and 8ch, 2 slot for 16ch and 20ch and 3 slot for 40ch
2 All ports are with connector and adapter of the same type.
3 Only applicable for products which are not covered by the Standard Specification.
4 Channel Plan may vary depending on customer request

Example: CWLGX947614

CWDM Module with channels, 1471~1611, SC/APC, SC Green Simplex Adapter