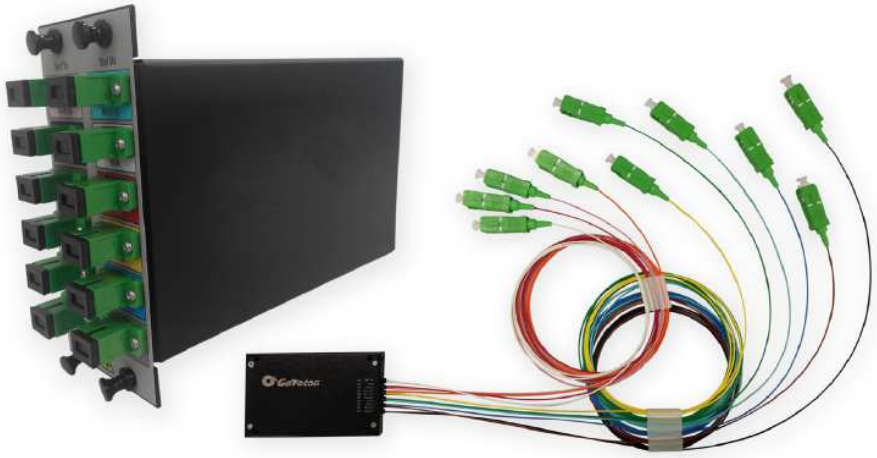
PASSIVE OPTICS

Coarse Wavelength Division Multiplexer (CWDM)
Multi-Channel, 2ch, 4ch, 8ch, 16ch

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:

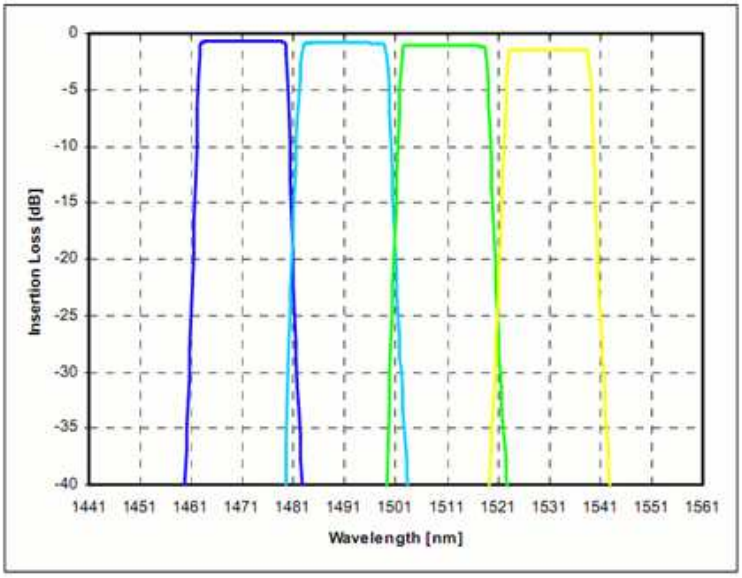
- Coarse WDM Systems
- Metro Networks
- Enterprise Networks
- CATV Fiber Optic Links

DESCRIPTION:

Based on Go!Foton's patented technology, SELMUX™ series is introduced to cover all TFFbasedcomponents using an all-glass platform for improved performance, such as lower insertionloss 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 itsunique 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:



Go!Foton Inc. (Japan)
5-4 Tokodai, Tsukuba City
Ibaraki Pref. Japan, 300-2635
Tel: +81 029 847 8686
Fax: +81 029 847 8693
www.gofoton.co.jp

Go!Foton Europe Sales
Hoogerheide
The Netherlands
CustomerCare@gofoton.com
Tel: +31 164 62 04 22
Fax: +31 164 62 04 17
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GF Micro Optics Philippines, Inc.
LTI Standard Factory Building
134 East Main Avenue, SEPZ
Laguna Technopark,
Biñan, Laguna 4024 Philippines
Tel: +63 2 751 0304
Fax: +63 2 751 0305
www.gofoton.ph

Go!Foton Nanjing Company Ltd.
Nanjing Jiangning National
High Tech Industrial Park
Nanjing Jiangning Science Park
2 Qiande Road, Building 7, 1st Floor
Jiangning, Nanjing
Jiangsu, 211100, China
Tel: +86 25 5216-3442
www.gofoton.cn

Go!Foton West Coast Sales
100 Century Center Court, Suite 203
San Jose, CA 95112, USA

Go!Foton Headquarters
28 World's Fair Drive
Somerset, NJ 08873, USA
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Fax: +1 732 469 9654
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SPECIFICATIONS:

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

OPTICAL CHARACTERISTICS

Parameter		Unit	2	4	8	16
Operating Wavelength		nm	1460~640			
Channel Spacing		nm	20			
Center Wavelength		nm	1271, 1291,1311,1331,1351,1371,1391,1411,1431, 1451,1471,1491, 1511, 1531,1551,1571,1591,1611			
Passband Bandwidth		nm	λc±6.5			
CWDM Port Insertion Loss		dB	≤1.2	≤2.2	≤3.2	≤3.4
Passband Ripple		dB	≤ 0.50			
Adjacent Channel Isolation		dB	≥30			
Non-Adjacent Channel Isolation		dB	≥ 45			
Polarization Dependent Loss		dB	≤ 0.20			
Optical Return Loss		dB	≥50			
Directivity		dB	≥55			
Optical Power Handling		mW	≤ 500			
Operating Temperature Range		°C	-40~85			
Storage Temperature Range		°C	-40~85			
Fiber Type		-	ITU G657A2, G657 B2 and G65D Compliant Single Mode Fiber			
Port Identification		-	Cable Marker			
Package Size	Cassette	mm	**2ch/ 4ch:** 60x35x6			
			8ch: 70x45x8			
			12ch / 16ch: 110x90x8			
	LGX		**2ch / 4ch / 8ch: 1-slot** 158x130(118)x28.8(26.8)			
			12ch / 16ch: 2-slot 158x130(118)x57.6(56.1)			

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.

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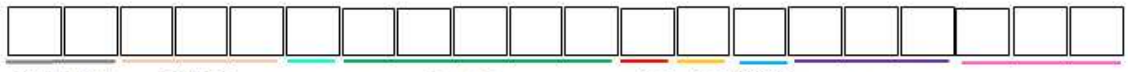
Ordering Information:

WDM in Cassette



PRODUCT CATEGORY	
Code	Code Description
DW	DWDM
CW	CWDM

PRODUCT SUB-CATEGORY	
Code	Code Description
01M	4CH Multiplexer
01X	4CH Demultiplexer
02M	8CH Multiplexer
02X	8CH Demultiplexer
03M	16CH Multiplexer
03X	16CH Demultiplexer
04M	20CH Multiplexer
04X	20CH Demultiplexer
05M	40CH Multiplexer
05X	40CH Demultiplexer
09M	Other Number of Channels Multiplexer
09X	Other Number of Channels Demultiplexer
0nP	n is for Channel Configuration following above- 01,02, 03, 04, 05, 09 and is used for either Premium grade

CHANNEL SPACING	
Code	Code Description
9	20nm (CWDM)
D	100GHz (DWDM)
E	200GHz (DWDM)

[3]CHANNEL PLAN	
Code	Code Description
Nxxyy	N is for Cband or L band
	for DWDM:
	xx is Longest Channel (Ex: 39) yy is Shortest Channel (Ex: 25)
	for CWDM:
	xx is shortest Wavelength (Ex: 47 for 1471) yy is Longest Wavelength (Ex: 61 for 1611)

[4]PRODUCT SERIES	
Code	Code Description
yyy	3-digit Product Series

[4]CUSTOMER CODE	
Code	Code Description
xxx	3-letter Customer Code

[3]CONNECTOR TYPE	
Code	Code Description
0	No Connector
1	FC/UPC
2	FC/APC
3	SC/UPC
4	SC/APC
5	LC/UPC
6	MU/PC
7	LC/APC
X	Special or as specified by Customer

[3]FIBER LENGTH	
Code	Code Description
1	1 meter
2	2 meters
3	3 meters
X	Special or as specified by Customer

[3]FIBER TYPE	
Code	Code Description
1	250um Bare Fiber (Single Mode)
2	900um Loose Tube White (with Single Mode 250um Bare Fiber inside)
3	900um Tight Buffer (Single Mode)
C	2mm Cable (Single Mode)
D	1.2mm Cable (Single Mode)
X	Special or as specified by Customer

Notes:

[1] *Standard Fiber Type is ITU-T G657.A2/B2 and G652.D.*

[2] *Standard Package Size is 60x35x6mm for 4ch, 70x45x8mm for 8ch, 110x90x8mm for 16 and 20ch and 140x95x16mm for 40ch*

[2] *Fiber Length tolerance is +/-0.1 meter.*

[3] *All ports are with connector of the same type.*

[4] *Only applicable for products which are not covered by the Standard Specification.*

Example: CW02X9N4761314

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

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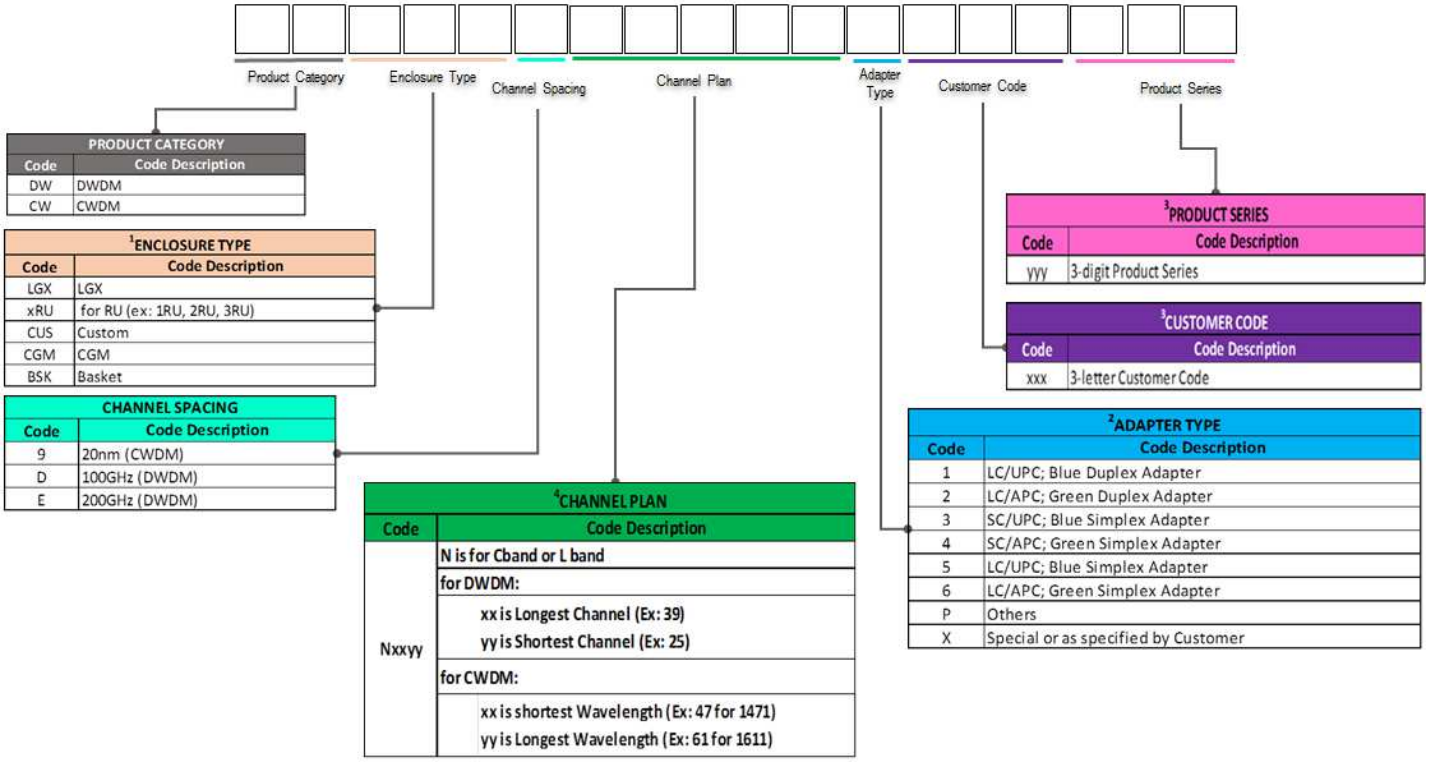
WDM in Enclosure



PRODUCT CATEGORY	
Code	Code Description
DW	DWDM
CW	CWDM

[1]ENCLOSURE TYPE	
Code	Code Description
LGX	LGX
xRU	for RU (ex: 1RU, 2RU, 3RU)
CUS	Custom
CGM	CGM
BSK	Basket

CHANNEL SPACING	
Code	Code Description
9	20nm (CWDM)
D	100GHz (DWDM)
E	200GHz (DWDM)

[4]CHANNEL PLAN	
Code	Code Description
Nxxyy	N is for Cband or L band
	for DWDM:
	xx is Longest Channel (Ex: 39)
	yy is Shortest Channel (Ex: 25)
	for CWDM:
	xx is shortest Wavelength (Ex: 47 for 1471)
	yy is Longest Wavelength (Ex: 61 for 1611)

[3]PRODUCT SERIES	
Code	Code Description
yyy	3-digit Product Series

[3]CUSTOMER CODE	
Code	Code Description
xxx	3-letter Customer Code

[2]ADAPTER TYPE	
Code	Code Description
1	LC/UPC; Blue Duplex Adapter
2	LC/APC; Green Duplex Adapter
3	SC/UPC; Blue Simplex Adapter
4	SC/APC; Green Simplex Adapter
5	LC/UPC; Blue Simplex Adapter
6	LC/APC; Green Simplex Adapter
P	Others
X	Special or as specified by Customer

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

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5-4 Tokodai, Tsukuba City
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