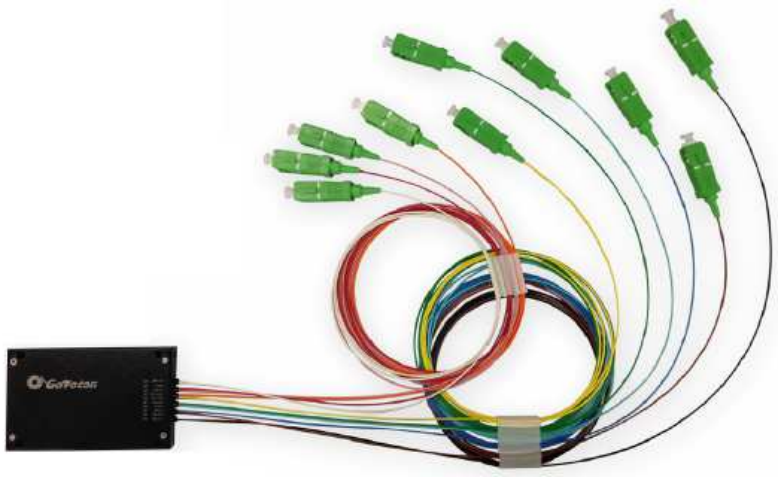
PASSIVE OPTICS

Coarse Wavelength Division Multiplexer (CWDM)
Optical Add-Drop Multiplexer (OADM)
2x2 (1ch), 3x3 (2ch), 4x4 (3ch), 5x5 (4ch)

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:

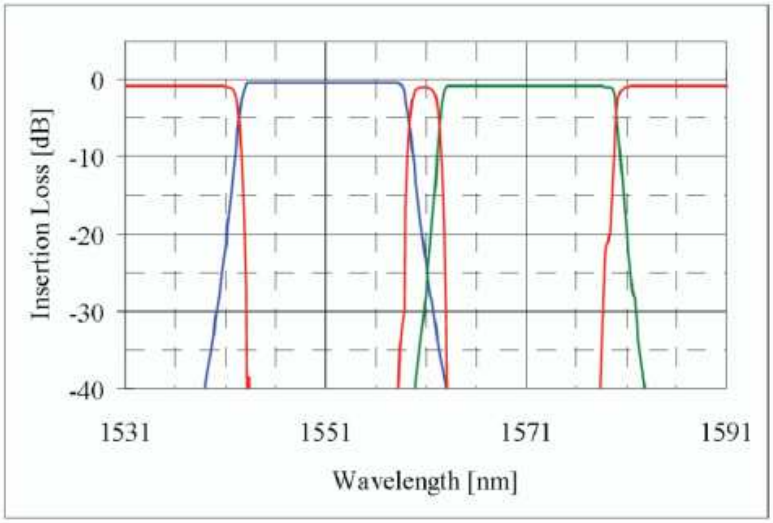
- Coarse WDM Systems
- Metro Networks
- Enterprise Networks
- CATV Fiber Optic Links

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
www.gofoton.eu

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
Tel: +1 732 469 9650
Fax: +1 732 469 9654
www.gofoton.com

SPECIFICATIONS:

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

A. OPTICAL CHARACTERISTICS

Parameter		Unit	1ch OADM	2ch OADM	3ch OADM	4ch OADM
Port Configuration		-	2x2	3x3	4x4	5x5
Operating Wavelength		nm	1460~1620			
Channel Spacing		nm	20			
Center Wavelength		nm	1471,1491, 1511, 1531,1551,1571,1591,1611			
Passband BandWidth		nm	ʎc±6.5			
Insertion Loss		dB	≤0.9	≤1.5	≤1.9	≤2.3
Express Channel Insertion Loss		dB	≤0.9	≤1.8	≤2.4	≤3.2
Add-Drop Channel Ripple		dB	≤ 0.50			
Drop Channel Isolation						
Adjacent Channel Isolation		dB	≥30			
Non-Adjacent Channel Isolation		dB	≥ 45			
Add Channel Isolation						
Adjacent Channel Isolation		dB	≥15			
Non-Adjacent Channel Isolation		dB	≥15			
Express Channel Isolation		dB	≥24			
Polarization Dependent Loss		dB	≤ 0.20			
Optical Return Loss		dB	≥50			
Directivity		dB	≥50			
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			
Fiber Jacket		-	900um tight buffer			
Fiber Length for Cassette		mm	1000 ± 100			
Port Identification		-	Cable Marker			
Package Size	Cassette	mm	**1ch, 2ch, 3ch OADM:** 70x45x8			
			4ch OADM: 95x75x8			

Notes:

1. All specifications include connector losses.
2. Other customized channels are also available per customer's request
3. Other package size available upon request.

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
www.gofoton.eu

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

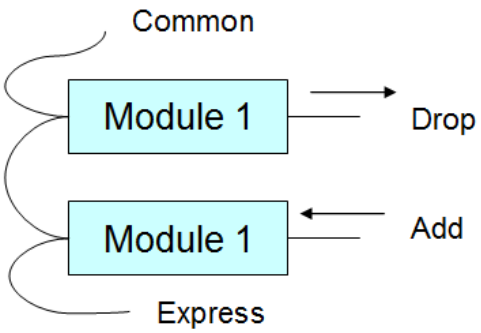
Go!Foton Nanjing Company Ltd.
Nanjing Jiangning National
High Tech Industrial Park
Nanjing Jiangning Science Park
2 Qiande Road, Building 7, 1st Floor
Jiangning, Nanjing
Jiangsu, 211100, China
Tel: +86 25 5216-3442
www.gofoton.cn

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

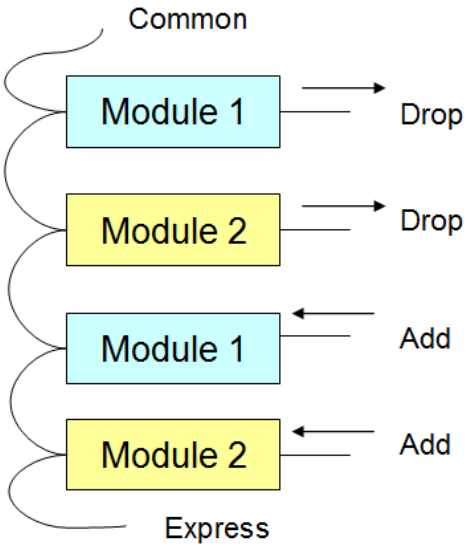
Go!Foton Headquarters
28 World's Fair Drive
Somerset, NJ 08873, USA
Tel: +1 732 469 9650
Fax: +1 732 469 9654
www.gofoton.com

B. Schematic Diagrams:

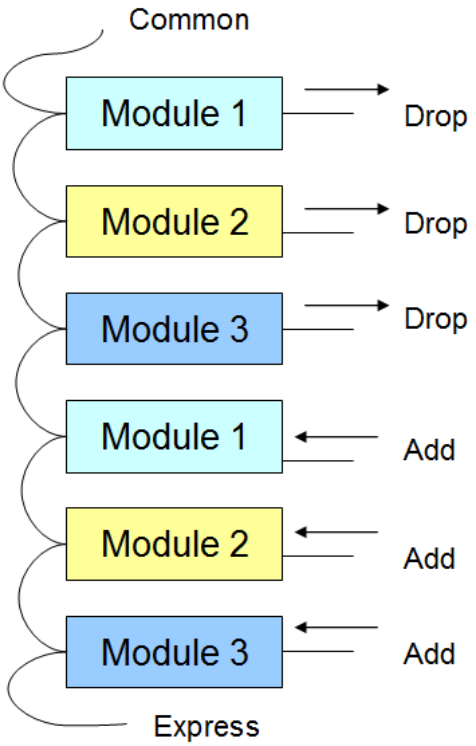
1-Channel OADM



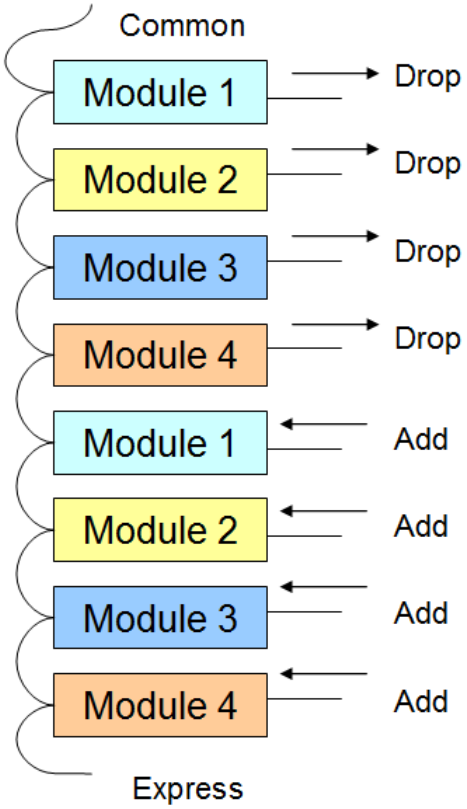
2-Channel OADM



3-Channel OADM



4-Channel OADM



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
www.gofoton.eu

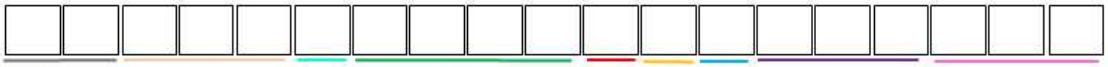
GF Micro Optics Philippines, Inc.
LTI Standard Factory Building
134 East Main Avenue, SEPZ
Laguna Technopark,
Biñan, Laguna 4024 Philippines
Tel: +63 2 751 0304
Fax: +63 2 751 0305
www.gofoton.ph

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
Tel: +1 732 469 9650
Fax: +1 732 469 9654
www.gofoton.com

Ordering Information:



PRODUCT CATEGORY	
Code	Code Description
DW	DWDM
CW	CWDM

SUB FAMILY	
Code	Code Description
110	1-Channel OADM
120	2-Channel OADM
130	3-Channel OADM
140	4-Channel OADM

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

WAVELENGTH	
Code	Code Description
xxyy	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)

[2] 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

[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

[2] FIBER LENGTH	
Code	Code Description
1	1 meter
2	2 meters
3	3 meters
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 1-channel OADMand 70X45X8mm for 2-channel OADM

[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: CW14094753324

4-Channel CWDM OADM, 1471~1531, two (2) meter 900um tight buffer with SC/APC connectors

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
www.gofoton.eu

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
Tel: +1 732 469 9650
Fax: +1 732 469 9654
www.gofoton.com