PASSIVE OPTICS

Dense Wavelength Division Multiplexing (DWDM) Optical Add-Drop Module (OADM), 200GHz Spacing 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:

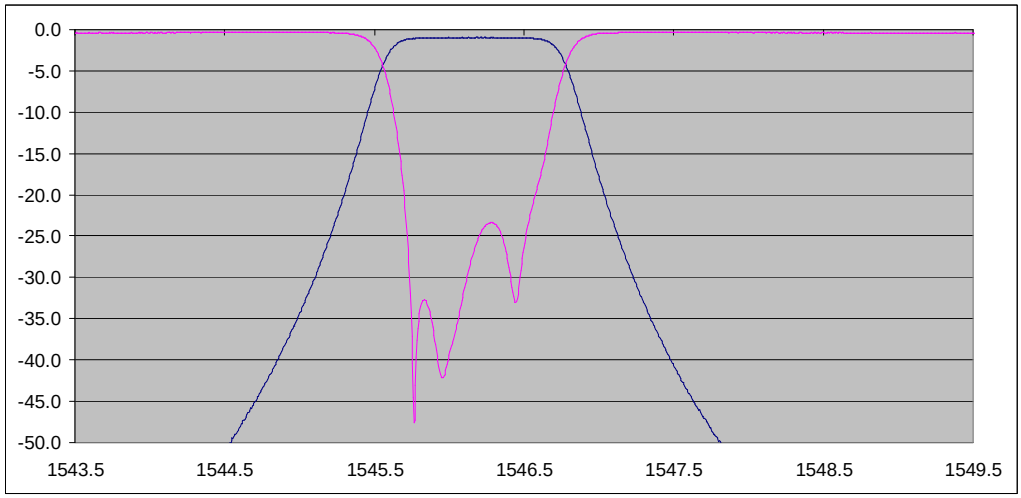
- Dense WDM Systems
- Long Haul Networks
- Metro Networks
- Access/ Enterprise Networks
- CATV Fiber Optic Links

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 DWDMs, are based on NSG's patent pending technology. This technology puts Go!Foton as one of only a few companies with a unique process for tuning the center wavelength in the DWDM spectrum. Based on NSG's unique SELFOC technology, the process eliminates the severe manufacturing burdens placed on the thin film filter, thus simplifying center wavelength tolerances and reducing cost. Go!Foton's SELMUX products are epoxy-free in the optical path and are in compliance with RoHS 6/6.

Wavelength Spectrum:



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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	ITU			
Channel Spacing	GHz	200			
Center Wavelength	nm	ITU			
Passband Bandwidth	nm	λc±0.25			
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	mm	**1ch:** 60x35x6			
		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.

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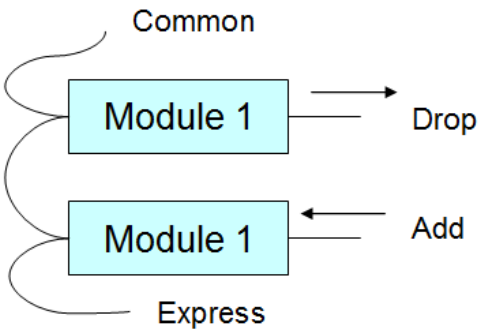
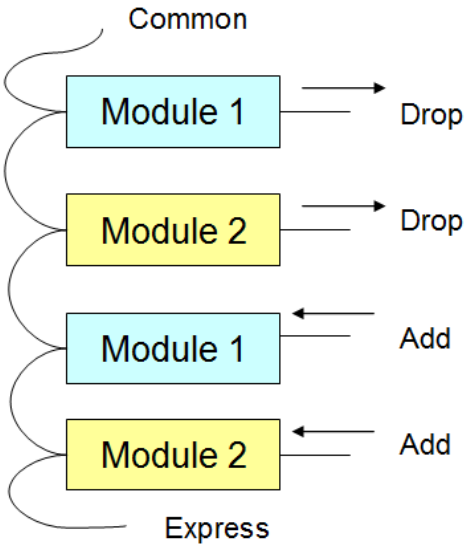
B. Schematic Diagrams

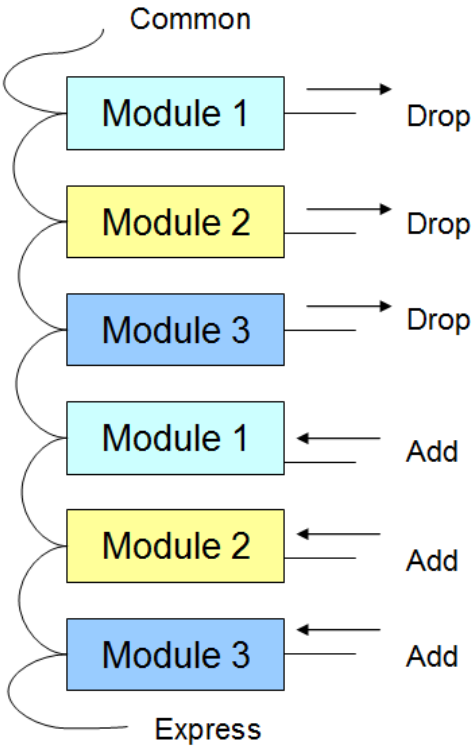
1-Channel OADM



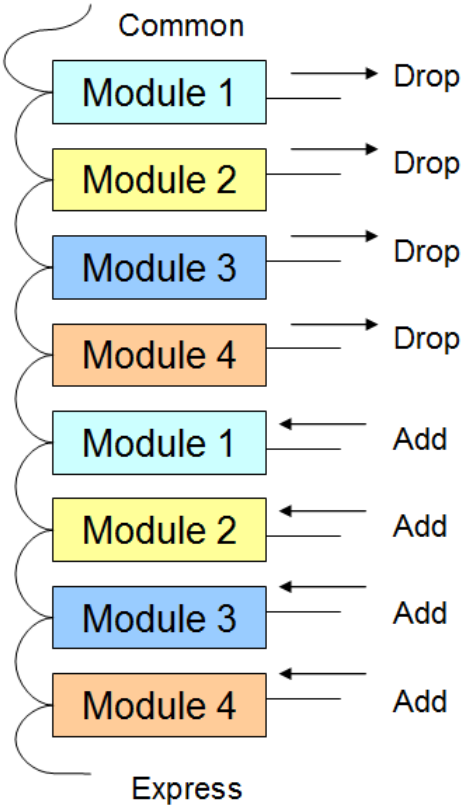
2-Channel OADM



3-Channel OADM



4-Channel OADM



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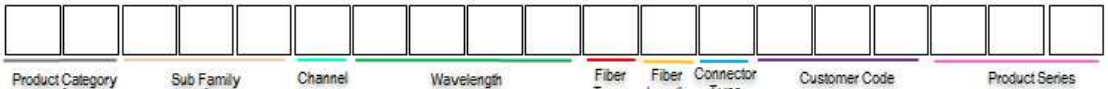
Ordering Information:



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)

[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

[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: DW110EC33D32

1-Channel DWDM OADM, 200GHz spacing, C33, three (3) meter 1.2mm cable (single mode) with FC/APC connectors

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