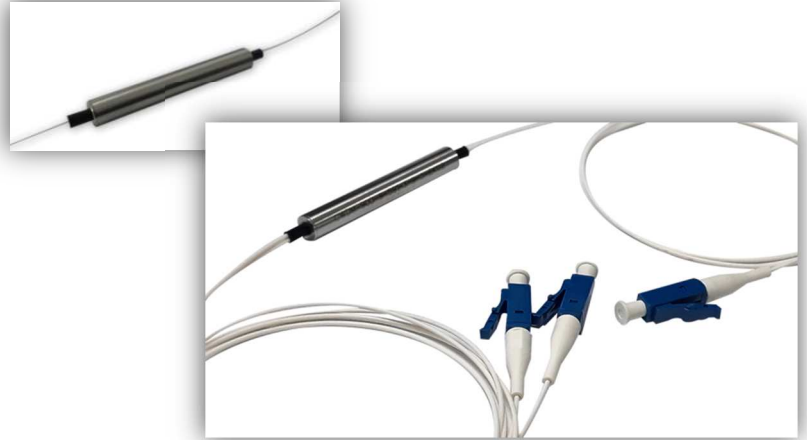**Go!Foton**
PASSIVE OPTICS

FEATURES:

- Telcordia GR-1221 Compliant
- Low Polarization Dependent Loss
- Low Insertion Loss
- Flat and Wide Passband
- Epoxy- Free Optical Path
- Exceptionally Stable and Reliable
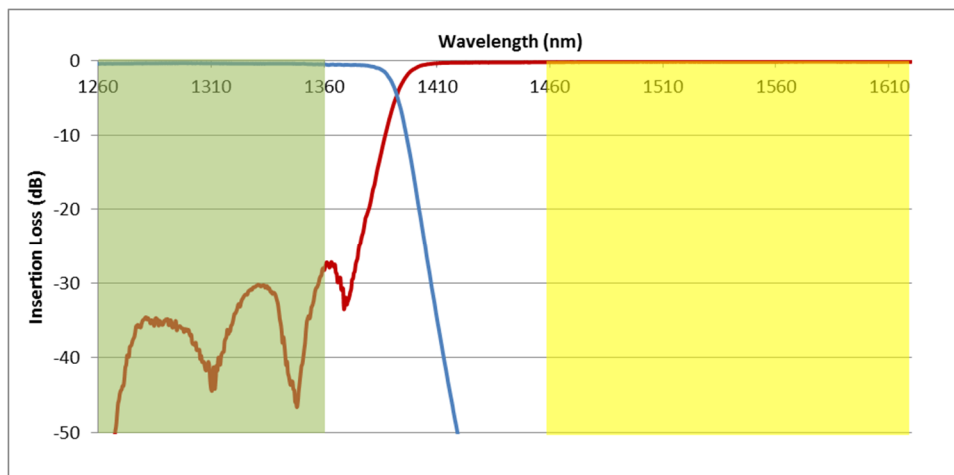- RoHS Compliant (Lead Free)

APPLICATIONS:

- CWDM System- Mux/DeMux of 1310nm

DESCRIPTION:

Go!Foton's Edge WDM 1310/CWDM are designed for multiplexing or demultiplexing of 1310nm and Long band 8-channel CWDM signals. These versatile, mux/ deproducts are Thin- Film- Filter based and are using Go!Foton's patented SELMUX™ packaging technology. This proven technology produces high quality 3-port devices with low PDL, low insertion loss and stable environmental performance. Go!Foton's Edge WDM 1310/CWDM products are epoxy- free in the optical path and are in compliance with RoHS 6/6.

WAVELENGTH SPECTRUM:

Note: Sample Spectrum only.

SPECIFICATION:

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

A. OPTICAL AND ELECTRICAL CHARACTERISTICS

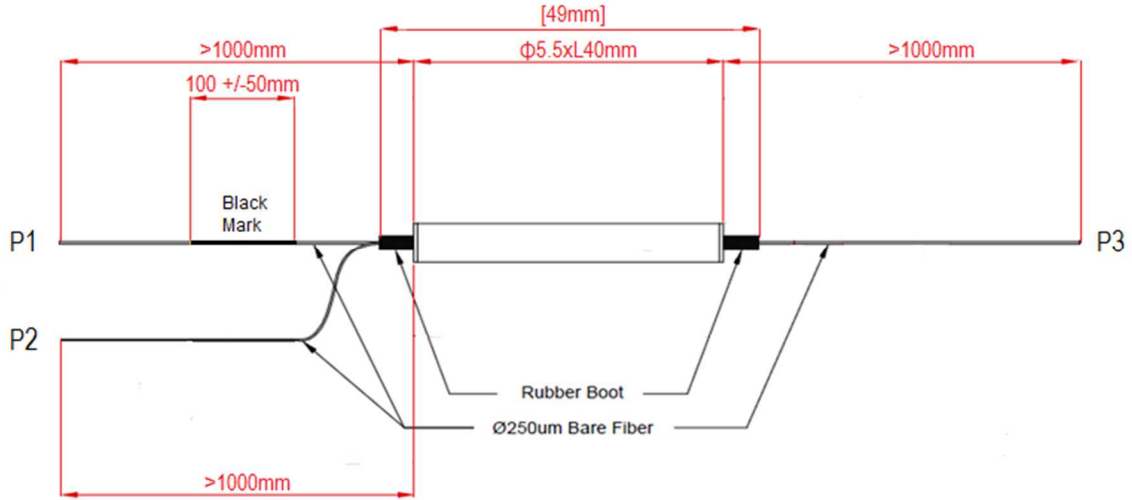| PARAMETER	UNIT	SYMBOL	PORT	SPECIFICATION	
Operating Wavelength Range	nm	WL	All	1260~1620	
				Short Pass	**Long Pass**
Pass Channel Wavelength Range [1]	nm	Λ_P	P1→P3	1260~1360	1460~1620
Reflection Channel Wavelength Range [1]	nm	Λ_R	P1→P2	1460~1620	1260~1360
Pass Channel Insertion Loss	dB	IL_P	P1→P3	≤1.0	
Reflection Channel Insertion Loss	dB	IL_R	P1→P2	≤1.0	
Wavelength Dependent Loss	dB	WDL	All	≤0.50	
Pass Channel Isolation	dB	ISO_P	P1→P3	≥40 @ Λ_R	
Reflection Channel Isolation	dB	ISO_R	P1→P2	≥20 @ Λ_P	
Polarization Dependent Loss	dB	PDL	All	≤0.20	
Return Loss	dB	RL	All	≥50	
Directivity	dB	Dir	P2↔P3	≥50	
Maximum Optical Power Handling	mW	P	All	500	
Operating Temperature	˚C	T_{OP}	All	-40~+85	
Operating Humidity Range (No Condensation)	%RH	RH	All	+5~+85	
Storage Temperature Range	˚C	T_{ST}	All	-40~+85	

All specifications are with connectors.

1 -- Depends on the requirement. See Ordering information.

B. MECHANICAL SPECIFICATIONS

PARAMETER	UNIT	SYMBOL	PORT	SPECIFICATION	
Fiber Type [2]	-	FT	All	ITU G657A2/B2 and G652D Compliant Fiber	
Fiber Length [3]	mm	FL	All	**No Connector**	**With Connector**
				>1000	1000 +/-100
Fiber Protection [4]	-	FP	All	Ø250um Bare Fiber	
Port Identification	-	PI	P1	Black Mark (100 +/-50mm)	
			P2	None	
			P3	None	
Package Size (Cylindrical Metal Housing)[5]	mm	PS	-	Φ5.5xL40[49]	

2/3/4/5 -- See ordering information. Connector termination is available upon request.

C. PACKAGE DIMENSIONS

Note: Sample Illustration only.

ORDERING INFORMATION:

Product Category | Isolation Grade | Pass Wavelength | Reflect Wavelength | Fiber Type | Fiber Length | Connector Type | Customer Code | Product Series

PRODUCT CATEGORY

Code	Code Description
EW	EWDM

ISOLATION GRADE

Code	Code Description
SS	3PM Standard
SP	3PM Premium
CS	Cassette Standard
CP	Cassette Premium

PASS WAVELENGTH

Code	Code Description
xxx	Last 3 digits of Pass Wavelength

REFLECT WAVELENGTH

Code	Code Description
xxx	Last 3 digits of Reflect Wavelength

[1]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 Compliant Single Mode Fiber.

[1]Standard Package Size is OD5.5mm x L40[49]mm for Fiber Type 1~3. For 1.2mm cable, Package Size is OD3.2mm x L65[75]mm.

[1]Standard Package size for Cassette is 60x35x6mm

[2]Fiber length tolerance is +/-0.1 meter for products with connector termination.

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

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

EXAMPLE: *EWSS310540310*

EWDM, 3PM Standard Grade, 1310nm Pass Wavelength, 1540nm Reflect Wavelength, 900um Tight Buffer, 1 meter length, no connector on all ports.