

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:

- B-PON/ G-PON
- Fiber-to-the-Premise



DESCRIPTION:

Go!Foton's B-PON/FTTP Coupler is ideal for FTTx and B-PON/G-PON applications. This coupler is based on SELMUX™ patented technology which optimizes glass, epoxy and Filter-on-Lens (FOL) technologies to create a high quality 3-port EWDM device with low PDL, low insertion loss and stable environmental performance. Go!Foton's SELMUX series are all epoxy-free in the optical path and are completely lead free that comply 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	1260~1560				
Pass Channel Wavelength Range ¹	nm	Λ_P	P1→P3	<table border="1"> <tr> <th>Short Pass</th> <th>Long Pass</th> </tr> <tr> <td>1260~1360 + 1480~1500</td> <td>1550~1560</td> </tr> </table>	Short Pass	Long Pass	1260~1360 + 1480~1500	1550~1560
Short Pass	Long Pass							
1260~1360 + 1480~1500	1550~1560							
Reflection Channel Wavelength Range ¹	nm	Λ_R	P1→P2	<table border="1"> <tr> <th>Short Pass</th> <th>Long Pass</th> </tr> <tr> <td>1550~1560</td> <td>1260~1360 + 1480~1500</td> </tr> </table>	Short Pass	Long Pass	1550~1560	1260~1360 + 1480~1500
Short Pass	Long Pass							
1550~1560	1260~1360 + 1480~1500							
Pass Channel Insertion Loss	dB	IL _P	P1→P3	≤0.80				
Reflection Channel Insertion Loss	dB	IL _R	P1→P2	≤0.80				
Wavelength Dependent Loss	dB	WDL	All	≤0.50				
Pass Channel Isolation	dB	ISO _P	P1→P3	≥20 @ 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.

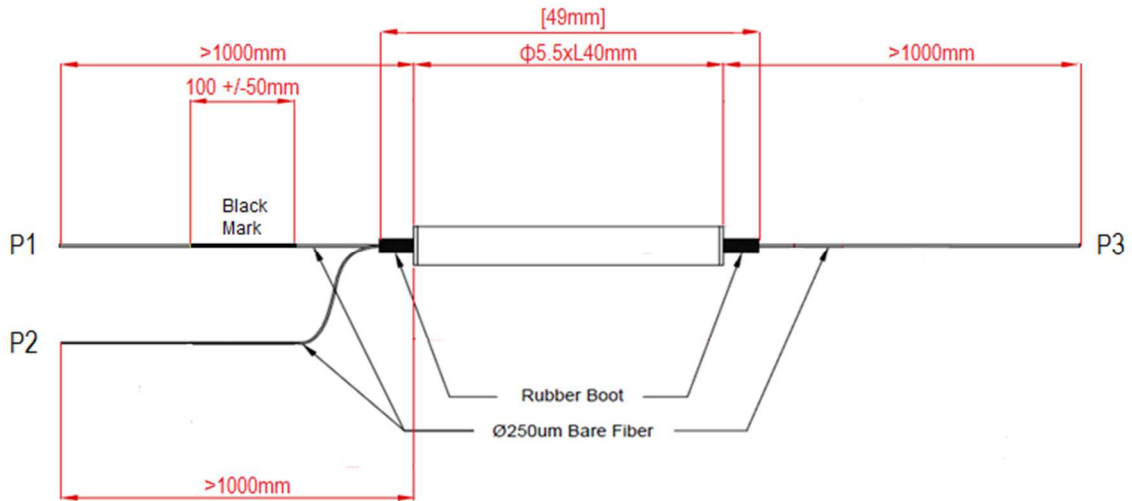
1 -- Depends on the requirement. See Ordering information.

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	<table border="1"> <tr> <th>No Connector</th> <th>With Connector</th> </tr> <tr> <td>>1000</td> <td>1000 +/-100</td> </tr> </table>	No Connector	With Connector	>1000	1000 +/-100
No Connector	With Connector							
>1000	1000 +/-100							
Fiber Protection ⁴	-	FP	All	∅250um Bare Fiber				
Port Identification	-	PI	P1	Black Mark (100 +/-50mm)				
			P2	None				
			P3	None				
Package Size (Cylindrical Metal Housing) ⁵	mm	PS	-	∅5.5xL40[49]				

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

C. PACKAGE DIMENSIONS



Note: Sample Illustration only.

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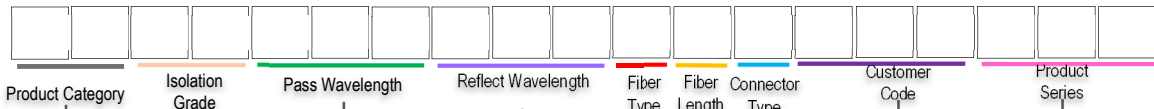
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ORDERING INFORMATION:



PRODUCT CATEGORY	
Code	Code Description
EW	EWDM

ISOLATION GRADE	
Code	Code Description
SS	3PM Standard
CS	Cassette Standard

¹ PASS WAVELENGTH	
Code	Code Description
M	1260~1360nm & 1480~1500nm
O	1260~1360nm
K	1550~1560nm
N	1480~1500nm & 1550~1560nm
xxx	Last 3 digits of Pass CW

¹ REFLECT WAVELENGTH	
Code	Code Description
M	1260~1360nm & 1480~1500nm
O	1260~1360nm
K	1550~1560nm
N	1480~1500nm & 1550~1560nm
xxx	Last 3 digits of Reflect CW

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

⁵ PRODUCT SERIES	
Code	Code Description
yyy	3-digit Product Series

⁵ CUSTOMER CODE	
Code	Code Description
xxx	3-letter Customer Code

⁴ 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

Notes:

- ¹3-digit wavelength is only applicable for those products with requirements outside the Standard Wavelength offered.
- ² Standard Fiber Type is ITU-T G657.A2/B2 and G652.D Compliant Single Mode Fiber..
- ²Standard 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.
- ²Standard Package size for Cassette is 60x35x6mm
- ³Fiber length tolerance is +/-0.1 meter for products with connector termination.
- ⁴ All ports are with connector of the same type.
- ⁵Only applicable for products which are not covered by the Standard Specification.

EXAMPLE: EWSSKM310
 EWDM, 3PM Standard Grade, 1550~1560nm Pass Wavelength, 1260~1360nm and 1480~1500nm Reflect Wavelength, 900um Tight Buffer, 1 meter length, no connector on all ports.

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