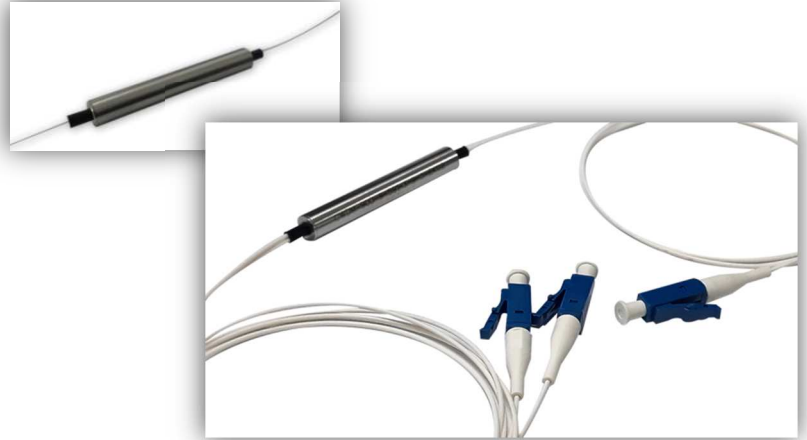


FEATURES:

- Low Polarization Dependent Loss
- Exceptionally Stable and Reliable
- Telcordia GR-1221 Compliant
- Flat and Wide Passband
- Epoxy- Free Optical Path
- High Channel Isolation
- Thin-Film-Filter based
- RoHS 6/6 Compliant
- Low Insertion Loss



APPLICATIONS:

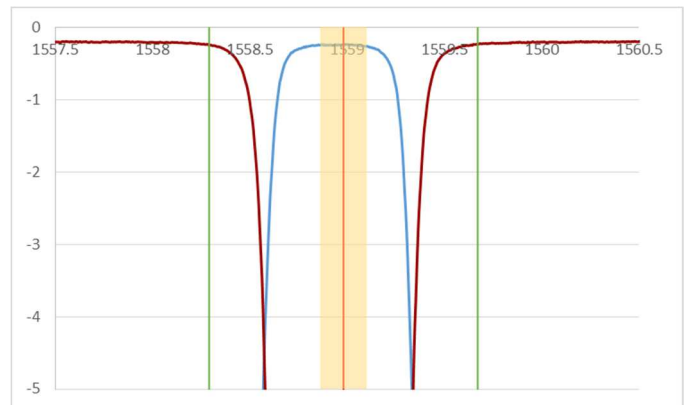
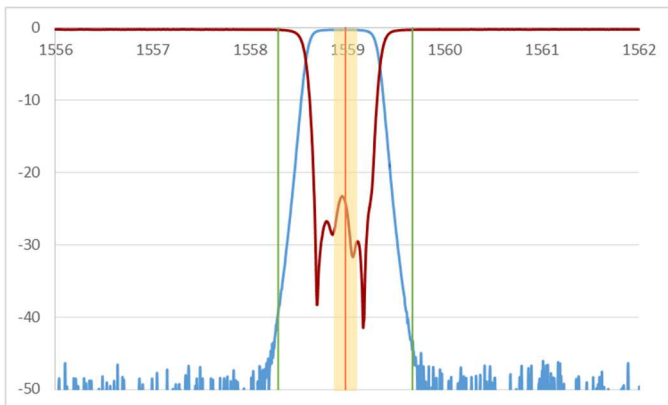
- Dense WDM Systems
- Metro Networks
- Access/ Enterprise Networks
- Long Haul Networks
- CATV Fiber Optic Links

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 Go!Foton's patent pending technology. This technology puts Go!Foton as one of only 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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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	1520~1620
Center Wavelength	nm	λ_c	-	ITU
Passband Width	GHz	PB	-	+/-12.5
Channel Spacing	GHz	S	-	100
Pass Channel Insertion Loss	dB	IL _P	P1→P3	≤1.0
Reflection Channel Insertion Loss	dB	IL _R	P1→P2	≤0.60
Wavelength Dependent Loss	dB	WDL	All	≤0.50
Pass Channel Isolation- Adjacent	dB	ISO _{Adj}	P1→P3	≥30
Pass Channel Isolation- Non-Adjacent	dB	ISO _{NAdj}	P1→P3	≥45
Reflection Channel Isolation	dB	ISO _R	P1→P2	≥12
Polarization Dependent Loss	dB	PDL	All	≤0.10
Return Loss	dB	RL	All	≥50
Directivity	dB	Dir	P2↔P3	≥50
Maximum Optical Power Handling	mW	-	All	500
Operating Temperature	°C	-	All	-40~+85
Operating Humidity Range (No Condensation)	%RH	-	All	+5~+85
Storage Temperature Range	°C	-	All	-40~+85

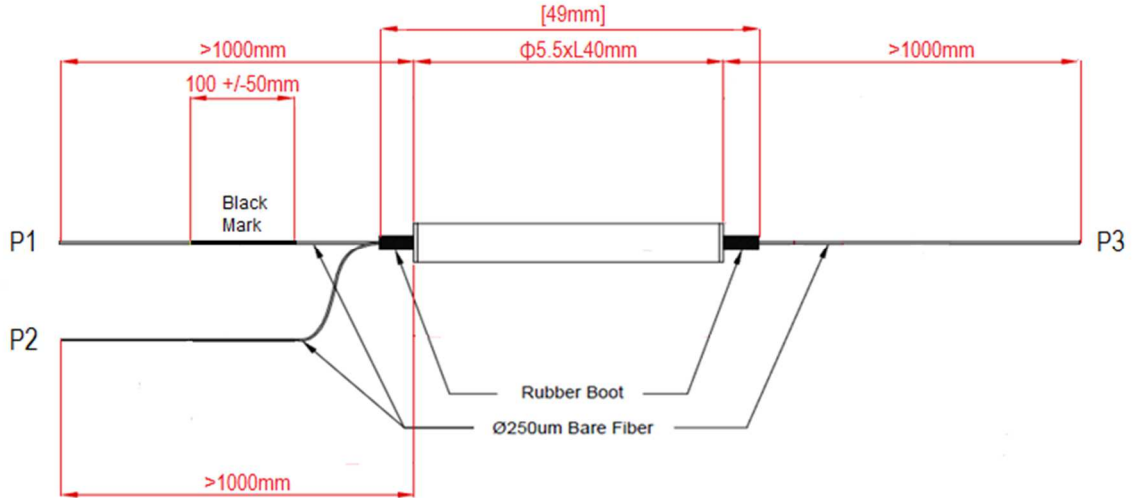
All specifications are with connectors.

B. MECHANICAL SPECIFICATIONS

PARAMETER	UNIT	SYMBOL	PORT	SPECIFICATION	
Fiber Type ¹	-	FT	All	ITU G657A2/B2 and G652D Compliant Fiber	
Fiber Length ²	mm	FL	All	No Connector	With Connector
				>1000	1000 +/-100
Fiber Protection ³	-	FP	All	Ø250um Bare Fiber	
Port Identification	-	PI	P1	Black Mark (100 +/-50mm)	
			P2	None	
			P3	None	
Package Size (Cylindrical Metal Housing) ⁴	mm	PS	-	Ø5.5xL40[49]	

1/2/3/4 -- See ordering information. Connector termination is available upon request.

C. PACKAGE DIMENSIONS



Note: Sample Illustration only.

DWDM Spacing Code Chart:

Code	Frequency (GHz)	λ (nm)	Code	Frequency (GHz)	λ (nm)	Code	Frequency (GHz)	λ (nm)	Code	Frequency (GHz)	λ (nm)
L66	186600	1606.6048	L90	189000	1586.2035	C14	191400	1566.3138	C38	193800	1546.9167
L67	186700	1605.7443	L91	189100	1585.3647	C15	191500	1565.4959	C39	193900	1546.1189
L68	186800	1604.8847	L92	189200	1584.5267	C16	191600	1564.6788	C40	194000	1545.3219
L69	186900	1604.026	L93	189300	1583.6897	C17	191700	1563.8626	C41	194100	1544.5258
L70	187000	1603.1682	L94	189400	1582.8535	C18	191800	1563.0472	C42	194200	1543.7305
L71	187100	1602.3114	L95	189500	1582.0182	C19	191900	1562.2327	C43	194300	1542.936
L72	187200	1601.4554	L96	189600	1581.1839	C20	192000	1561.4191	C44	194400	1542.1423
L73	187300	1600.6004	L97	189700	1580.3503	C21	192100	1560.6062	C45	194500	1541.3494
L74	187400	1599.7463	L98	189800	1579.5177	C22	192200	1559.7943	C46	194600	1540.5573
L75	187500	1598.8931	L99	189900	1578.6859	C23	192300	1558.9831	C47	194700	1539.7661
L76	187600	1598.0408	L00	190000	1577.855	C24	192400	1558.1729	C48	194800	1538.9757
L77	187700	1597.1894	C01	190100	1577.025	C25	192500	1557.3634	C49	194900	1538.186
L78	187800	1596.339	C02	190200	1576.1959	C26	192600	1556.5548	C50	195000	1537.3972
L79	187900	1595.4894	C03	190300	1575.3676	C27	192700	1555.7471	C51	195100	1536.6092
L80	188000	1594.6407	C04	190400	1574.5402	C28	192800	1554.9401	C52	195200	1535.822
L81	188100	1593.793	C05	190500	1573.7137	C29	192900	1554.134	C53	195300	1535.0356
L82	188200	1592.9461	C06	190600	1572.888	C30	193000	1553.3288	C54	195400	1534.25
L83	188300	1592.1001	C07	190700	1572.0632	C31	193100	1552.5244	C55	195500	1533.4653
L84	188400	1591.2551	C08	190800	1571.2393	C32	193200	1551.7208	C56	195600	1532.6813
L85	188500	1590.4109	C09	190900	1570.4162	C33	193300	1550.918	C57	195700	1531.8981
L86	188600	1589.5676	C10	191000	1569.594	C34	193400	1550.1161	C58	195800	1531.1157
L87	188700	1588.7253	C11	191100	1568.7727	C35	193500	1549.315	C59	195900	1530.3341
L88	188800	1587.8838	C12	191200	1567.9522	C36	193600	1548.5148	C60	196000	1529.5534
L89	188900	1587.0432	C13	191300	1567.1326	C37	193700	1547.7153	C61	196100	1528.7734

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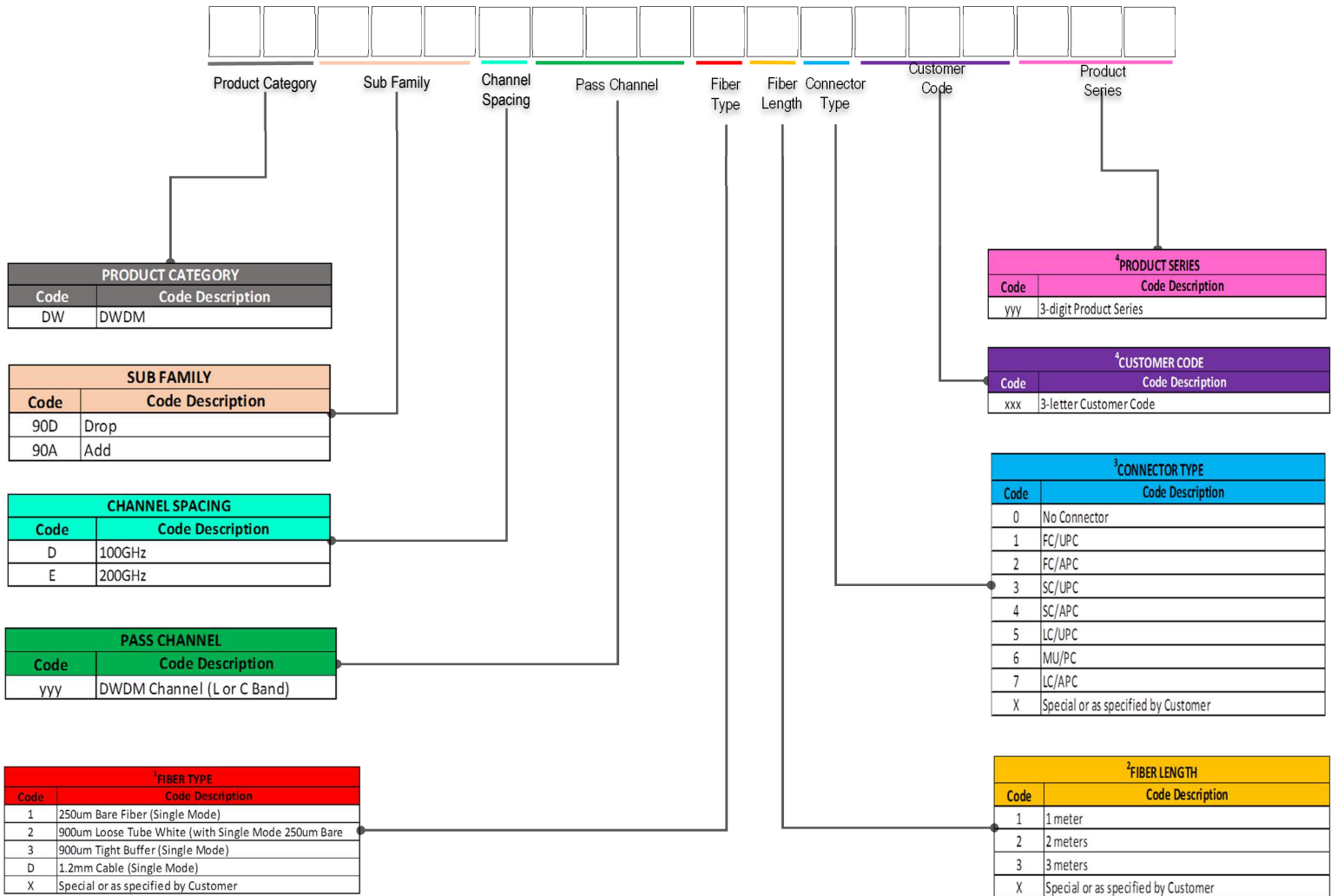
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ORDERING INFORMATION:



- 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.
 - 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: DW90DDC21110
DWDM, 3PM, 100GHz, C21, 250um Bare Fiber, 1 meter length, no connector on all ports.

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