

5G OMUX Series 3CH DWDM Mux/Demux Module

1. Description

Gigalight's 5G OMUX Series 3CH DWDM Mux/Demux Module (100GHz channel-spacing) is based on TFF platform. This DWDM features ultra low loss and super thermal stability, and unparallel reliability. The module features 3 low dispersion channels, enabling it to be a high capacity, low cost solution for DWDM system or WDM PON network applications. Easily customizable, Gigalight's DWDM module can be configured from a standard list of packaging and connector options.

2. Features

- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ Low PDL
- ◆ Compact Design
- ◆ Good channel-to-channel uniformity
- ◆ Wide Operating Wavelength: From 1260nm to 1620nm
- ◆ Wide Operating Temperature: From -30°C to 85°C
- ◆ High Reliability and Stability

3. Applications

- ◆ 5G Fronthaul
- ◆ WDM System
- ◆ PON Networks
- ◆ CATV Links

4. Compliance

- ◆ Telcordia GR-1209-CORE
- ◆ Telcordia GR-1221-CORE
- ◆ RoHS

5. Specifications

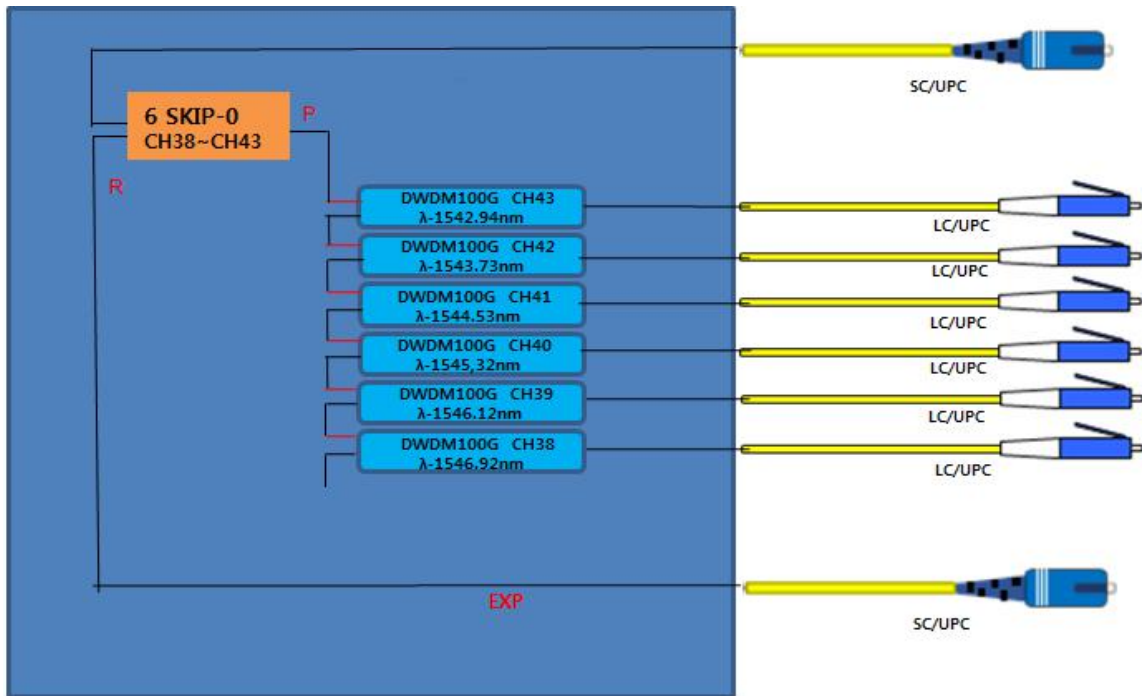
Parameters		Unit			5G_MUX10_3CH			
					COT		RT	
Central Wavelength		nm			C38~C43			
Pass band		nm Min	First Wavelength	Final Wavelength	0.22			
					Module	Component Range	Module	Component Range
Insertion Loss	CH 38	dB Max	1546.81	1547.03	2.4	0.7	1.7	0.6
	CH 39	dB Max	1546.01	1546.23	2.2	0.6	1.9	0.6
	CH 40	dB Max	1545.21	1545.43	2.1	0.6	2.0	0.6
	CH 41	dB Max	1544.42	1544.64	2.0	0.6	2.1	0.6
	CH 42	dB Max	1543.62	1543.84	1.9	0.6	2.2	0.6
	CH 43	dB Max	1542.83	1543.05	1.7	0.6	2.4	0.7
	EXP	dB Max	1262.5~1542.25	1547.61~1617.5	0.7		0.7	
Link Insertion Loss	Channel Port	dB Max			4.3 (4.1)			
	EXP Port	dB Max			1.6 (1.4)			
Adjacent Channel Isolation		dB Min			25			
Non-Adjacent Channel Isolation		dB Min			35			
EXP Channel Isolation		dB Min			10			
Return Loss		dB Min			50			
Directivity		dB Max			50			
Operating Temperature		℃			-30~85			
Connector Type		/			COM&EXP: SC/UPC; Other: LC/UPC		COM&EXP: SC/APC; Other: LC/APC	

Notes

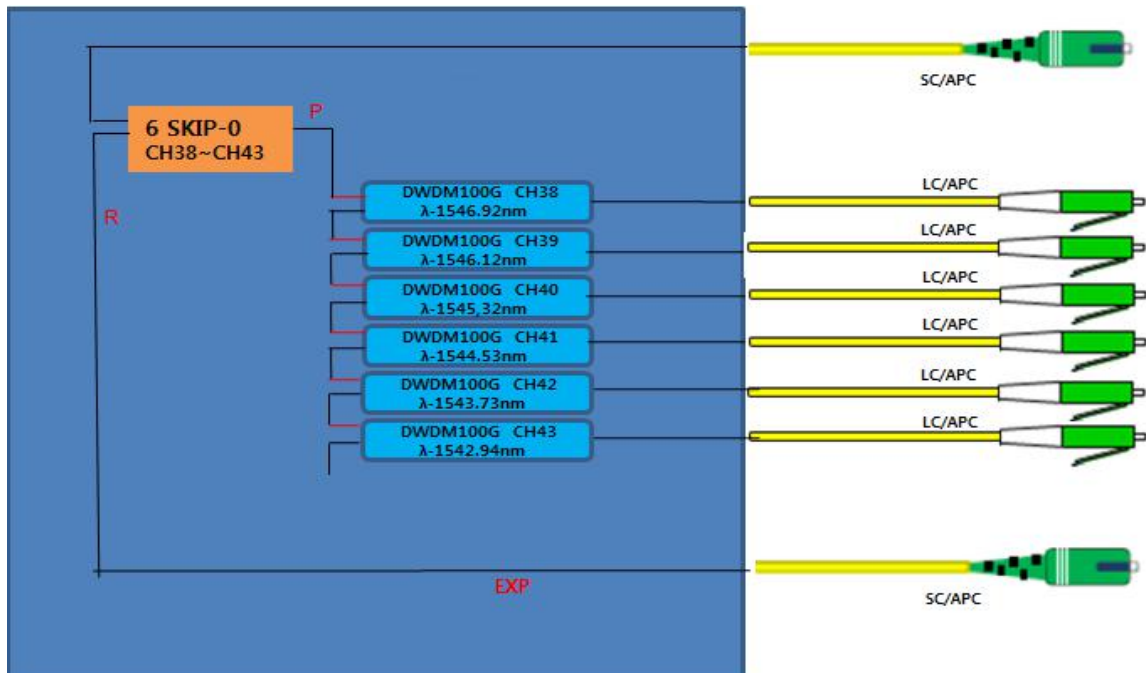
1)The above specification parameter is the final index of product, including the insertion loss of the connector;

6. Structure Diagram

COT:



RT:



8. Ordering information

- 1) **5G_MUX10_3CH-COT**, the corresponding material number of Gigalight: 889207178,
PN : 5G MUX10_3CH COT Module, GWM-06X438XXB07-3X
- 2) **5G_MUX10_3CH-RT**, the corresponding material number of Gigalight: 889207179,
PN : 5G MUX10_3CH RT Module, GWM-12X338XXB07-4X

E-mail: sales@gigalight.com

Web: <https://www.gigalight.com/>