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## 5G Mux/Demux Module-25G LWDM

### 1. Description

Gigalight's Mux/Demux 25G LWDM is based on TFF platform. This DWDM features ultra low loss and super thermal stability, and unparalleled reliability. The module features up to 6 low dispersion channels, thereby 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_MUX25_3CH			
					COT		RT	
Central Wavelength		nm			1286.66/1291.10/1295.56/1300.05/1604.58/ 1309.14			
Pass band		nm Min	First Wavelength	Final Wavelength	+/-1.15			
					Module	Component Range	Module	Component Range
Insertion Loss	1286.66	dB Max	1285.51	1287.81	1.4	0.5	2.2	0.6
	1291.10	dB Max	1289.95	1292.25	1.7	0.5	1.9	0.5
	1295.56	dB Max	1294.41	1296.71	1.8	0.5	1.8	0.5
	1300.05	dB Max	1298.90	1301.20	1.8	0.5	1.8	0.5
	1304.58	dB Max	1303.43	1305.73	1.9	0.5	1.7	0.5
	1309.14	dB Max	1307.99	1310.29	2.2	0.6	1.4	0.5
	EXP	dB Max	1262.5~1283 .41	1312.58~161 7.5	0.9		0.9	
Link Insertion Loss	Channel Port	dB Max			3.8 (3.6)			
	EXP Port	dB Max			2.0 (1.8)			

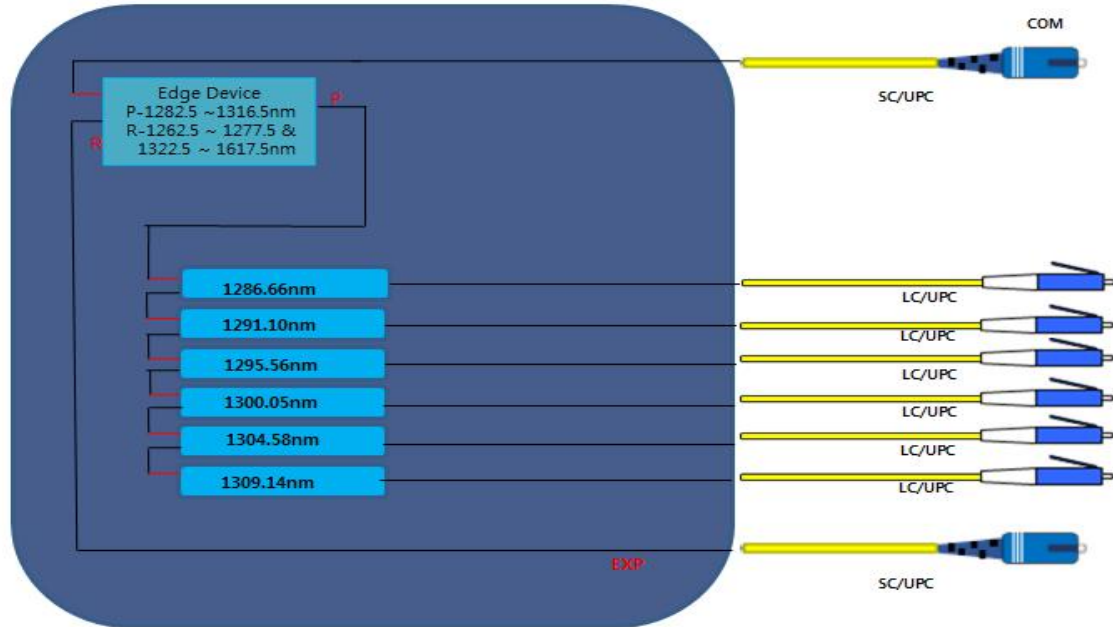
Adjacent Channel Isolation	dB Min	25	
Non-Adjacent Channel Isolation	dB Min	35	
EXP Channel Isolation	dB Min	10	
Return Loss	dB Min	50	
Directivity	dB Max	50	
Operating Temperature	°C	-30~85	
Connector Type	/	COM&EXP: SC/UPC; Other: LC/UPC	COM&EXP: SC/APC; Other: LC/APC

Notes:

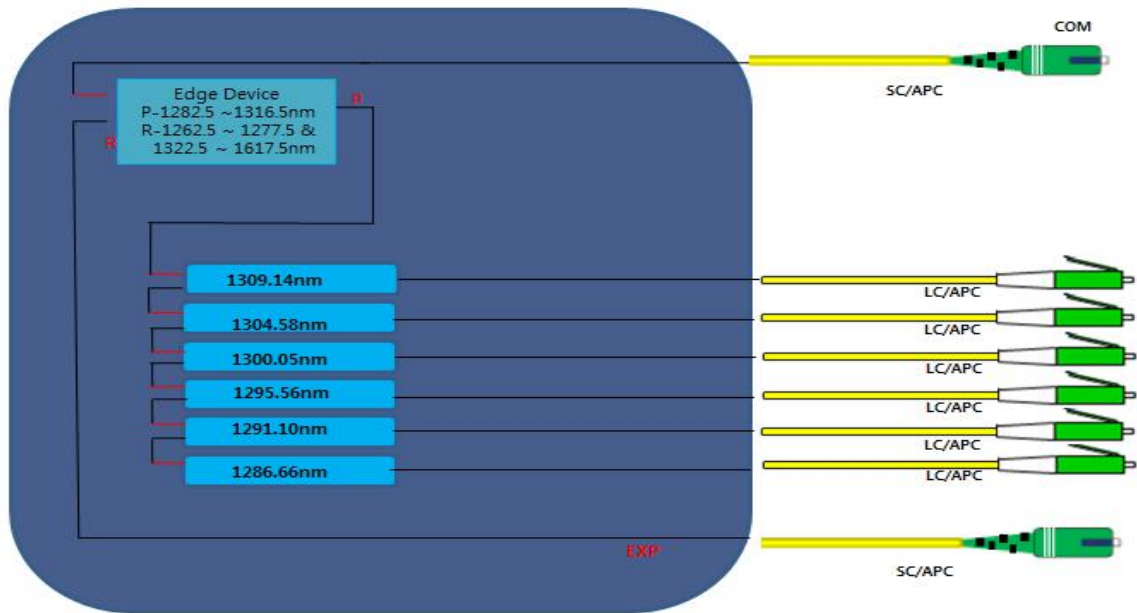
1)The above specification parameter is the final index of product, including the insertion loss of the connector;

## 6. Structure Diagram

COT:



RT



## 7. Ordering information

- 1) **5G\_MUX25\_3CH-COT**, the corresponding material number of Gigalight: **889207180**,  
PN : 5G MUX25\_3CH COT Module,GWM-06X3XXB07-3X
- 2) **5G\_MUX25\_3CH-RT**, the corresponding material number of Gigalight: **889207181**,  
PN : 5G MUX25\_3CH RT Module,GWM-06X4XXXXB07-4X

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