
5G-Mux10_3CH

1. Description

Gigalight's 100GHz/200GHz DWDM is based on TFF platform. This DWDM features ultra low loss and super thermal stability, and unparalleled reliability. The module features up to 4 or 8/16 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_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 | 1547.61~161 7.5 | 0.7 | | 0.7 | |
| Link Insertion Loss | Channel Port | dB Max | | | 4.3 (4.1) | | | |
| | EXP | dB Max | | | 1.6 (1.4) | | | |

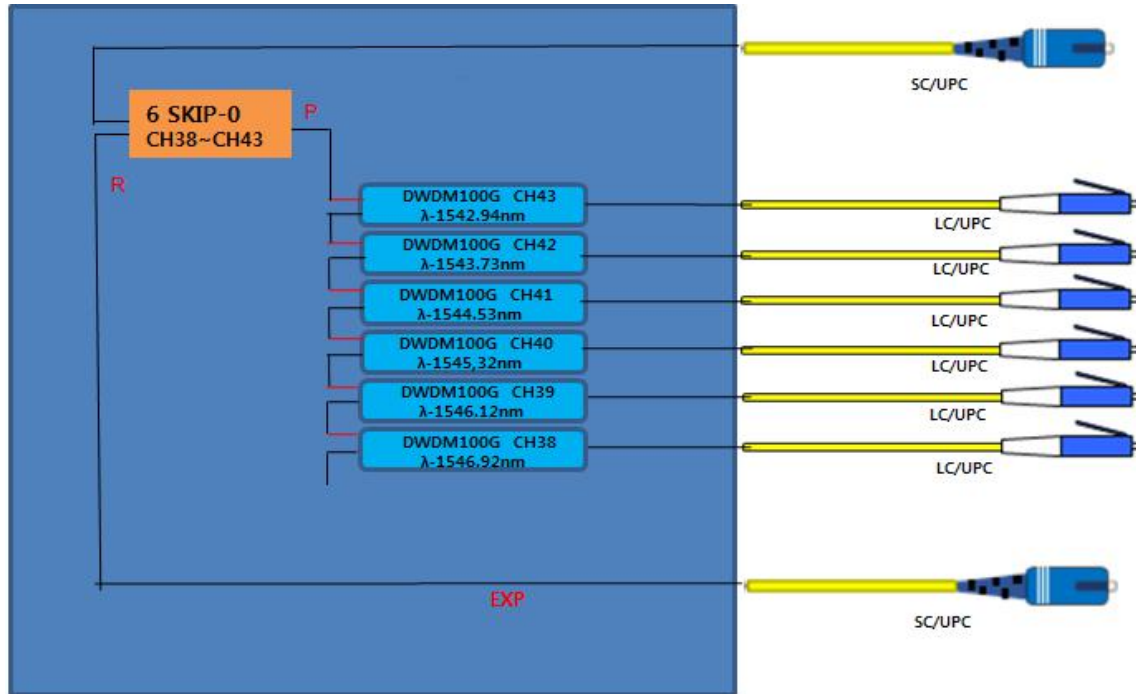
| | | | |
|--------------------------------|------|--------------------------------------|--------------------------------------|
| | Port | | |
| Adjacent Channel Isolation | | dB Min | 25 |
| Non-Adjacent Channel Isolation | | dB Min | 35 |
| EXP Channel Isolation | | dB Min | 10 |
| Return Loss | | 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

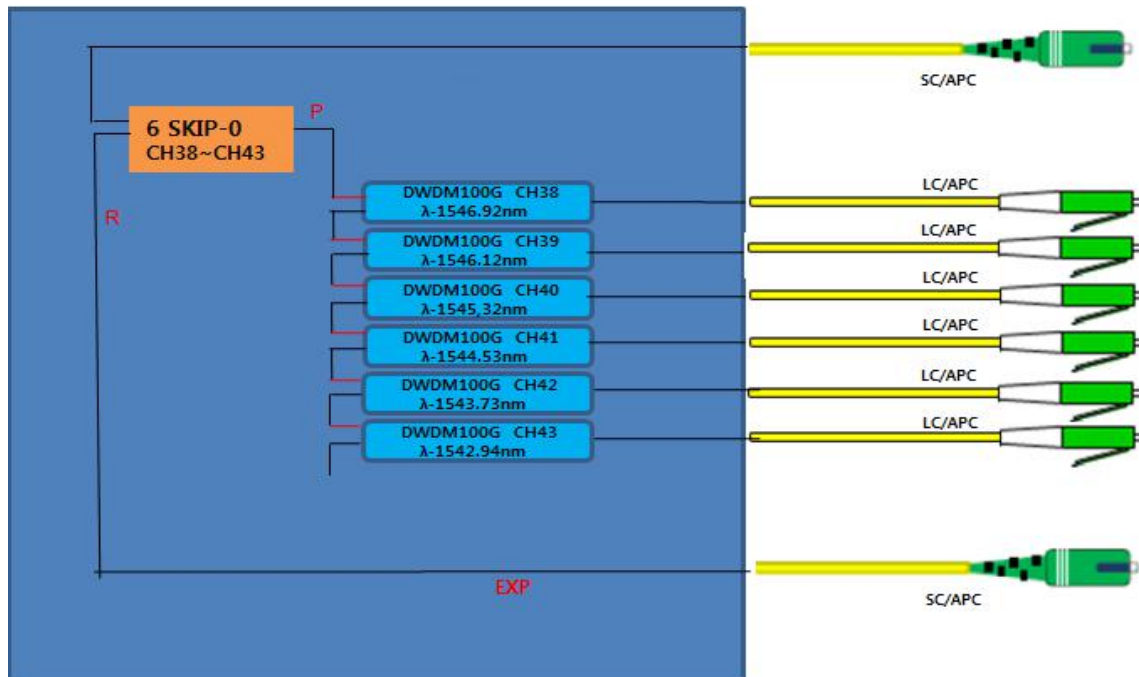
1)The above specification parameter is the final index of product, including the insertion loss of the connector;

6. Structure Diagram

COT:



RT:



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

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