

Specification of WDM3PON

1. PRODUCT DESCRIPTION

4 ports WDM module, WDM3PON, combine/split GPON/XGSPON/NGPON2 signals, low insertion loss, high isolation

This product is used to combine GPON/XGSPON/NGPON2 upstream and downstream signals into 1 fiber, or split GPON/XGSPON/NGPON2 upstream and downstream signals from line fiber

2. FEATURES

- ◇ Low insertion loss
- ◇ Low polarization dependent loss
- ◇ High durability

3. OPTICAL SPECIFICATION

No.	Parameter	Unit	Specification
3.1	Operating Wavelength	nm	1260~1650
3.2	Port number	PCS	4
3.3	GPON port wavelength	nm	1300~1320&1480~1500
3.4	XGSPON port wavelength	nm	1260~1280&1575~1581
3.5	NGPON2 port wavelength	nm	1524~1544&1596~1625
3.6	Insertion Loss(GPON to COM)	dB	≤1.0
3.7	Insertion Loss(XGSPON to COM)	dB	≤1.2
3.8	Insertion Loss(NGPON2 to COM)	dB	≤1.4
3.9	PDL	dB	≤0.20
3.10	Ripple over Pass Band	dB	≤0.3
3.11	Pass band Isolation(GPON to COM)	dB	≥30
3.12	Pass band Isolation(XGSPON to COM)	dB	≥30
3.14	Pass band Isolation(NGPON2 to COM)	dB	≥30
3.15	Insertion Loss Thermal Stability	dB/°C	≤0.006
3.16	Wavelength Thermal Stability	nm/°C	≤0.002
3.17	Return loss	dB	≥50
3.18	Directivity	dB	≥55
3.19	PMD	ps	≤0.15
3.20	Power Handling	mW	300

Note: Insertion Loss includes connector

4. ABSOLUTE MAXIMUM RATINGS

NO.	PARAMETER	SPECIFICATION	UNITS	REMARK
4.1	Operating Temperature	-5 ~ +70	°C	
4.2	Storage Temperature	-40 ~ +85	°C	

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4.3	Operating Humidity	5 ~ 95	%RH	
4.4	Tensile strength	-	N	

5. FIBER AND CONNECTOR

NO.	PARAMETER	SPECIFICATION	REMARK
5.1	Fiber Type	Corning SMF-28e or equivalent	or customer specify
5.2	Connector Type	GPON port : SC/UPC XGSPON port: SC/UPC NGPON2 port: SC/UPC COM port: SC/UPC	or customer specify

6. PACKAGE DIMENSION

NO.	PARAMETER	SPECIFICATION	REMARK
6.1	Package (mm)	135X102X14.5	or customer specify

7. ORDERING INFORMATION

LAWDM3PON-3-3-1

LA	Link-All
WDM3PON	Wavelength Division Multiplexing GPON+XGSPON+NGPON2
3	COM port Connector Type: 0: none 1:SC/APC 2: LC/UPC 3:SC/UPC
3	GPON&XGSOPN&NGPON2 Connector Type: 0: none 1:SC/APC 2: LC/UPC 3:SC/UPC
1	Box size: 135X102X14.5

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8. Application

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