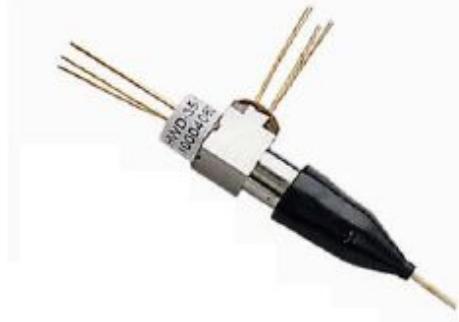


**BiDi-C1000
CWDM Laser**

Technical Specification

CONTENT

1.0 PRODUCT FEATURE.....	1
2.0 MAIN APPLICATION.....	1
3.0 TECHNIQUE INDEX.....	2
4.0 PIN DEFINATION.....	3
4.1 TRANSMIT.....	3
4.2 RECEIVER.....	3
5.0 DIMENSIONS.....	3
6.0 PRODUCT SERIES.....	4
7.0 MODEL EXPLANATION.....	4



1.0 PRODUCT FEATURE

- Tx Laser wavelengths optical : 17 CWDM
- Using DFB Lasers
- DFB laser optical: with isolation or without isolation
- Low threshold current and operating current
- High output power
- Built-in InGaAsP monitor PD
- Wide temperature range operation($T_c = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$)
- Fiber ITU-T G.657 Bending low loss, fiber optic cable features

2.0 MAIN APPLICATION

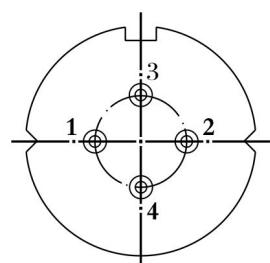
- video, audio data transmission
- FTTx PON
- RFoG
- CATV HFC 网
-

3.0 Technique index

Performance			Index			Supplement
			Min.	Typ.	Max.	
Transmit	Center wavelength (λ_c)	(nm)	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610	-	-	-
	Laser Type		DFB			
	Center wavelength accuracy	(nm)	-1.5		+1.5	
	Threshold current (I _{th})	(mA)	-	5	15	λ nm, 25°C
	Spectral width ($\Delta\lambda$)	(nm)	-	1	2	CW, I _{th} +20mA
	Output power (P _o)	(mW)	-	2.0		CW, I _{th} +20mA, λ nm
	Operating voltage (V _{op})	(V)	-	1.1	1.5	CW, I _{th} +20mA
	Rise/ Fall time (T _r /T _f)	(nS)	-	0.3	0.7	CW, I _{th} +20mA
General feature	Monitor current (I _m)	(mA)	0.1	0.7	-	CW, I _{th} +20mA
	Return Loss	(dB)	50			
	Connector		APC			
	Fiber Type		SMF28 900 μm			
Limit value	Optical fiber length	(m)	0.5	0.8	1.5	
	Storage temperature	(°C)	-40		+100	-
	Operating temperature	(°C)	-40		+85	-
	Reverse voltage	(V)			2	CW
	Soldering temperature/time	(°C /S)			260/10	-

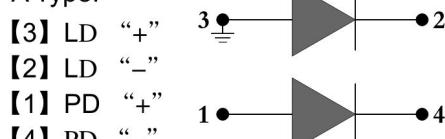
4.0 PIN Definition

4.1 Transmit



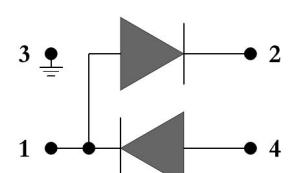
A Type:

- 【3】 LD “+”
- 【2】 LD “-”
- 【1】 PD “+”
- 【4】 PD “-”

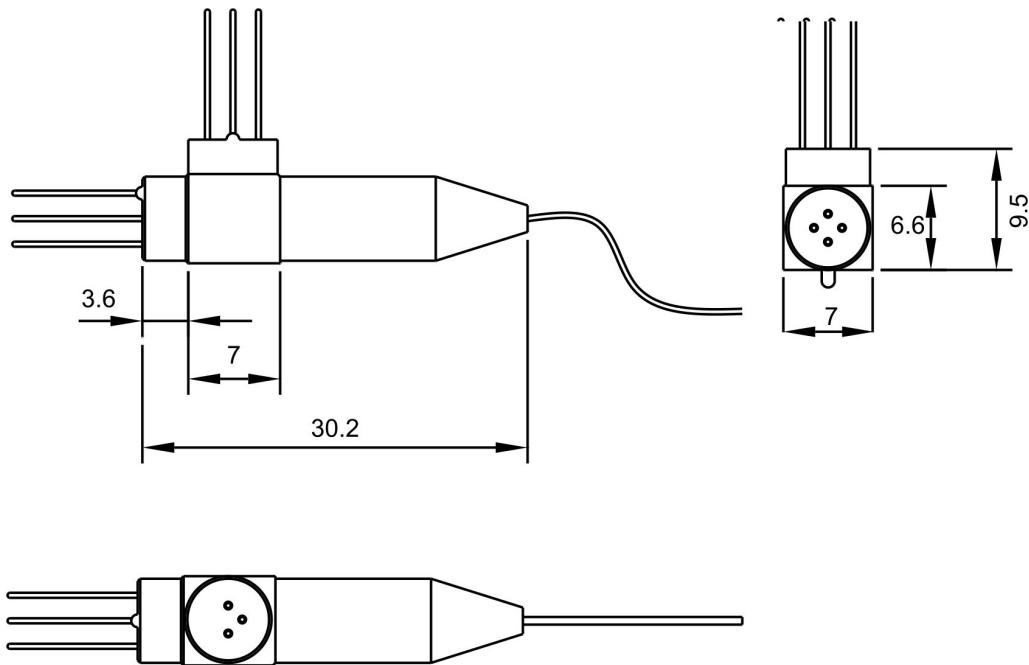


B Type:

- 【1】 LD “+”
- 【2】 LD “-”
- 【1】 PD “+”
- 【4】 PD “-”
- 【3】 Case.



5.0 Dimensions



6.0 PRODUCT SERIES

Model	CWDM TxOperating Wavelength (nm)	Output Power (dBm)	Laser Type
BiDi-Cxxx-3/DI	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610	2~3	DFB With ISO
BiDi-Cxxx-3/DO			DFB Without ISO

7.0 Model explanation

BiDi - C 1 □□□ - 3 / D□ □ - R□□□ - B - □□ / □□

CWDM Tx Operatiing Wavelength (nm)	Output Power (dBm)	DFB Laser The Built-in Isolator		Tx Pin Defination		Rx Operatiing Wavelength (nm)		Rx Pin Defination		Connector		Fiber length			
1270	1270	3	2~3	I	With ISO	A	A Type	131	1310	B	B Type	FP	FC/UPC	05	0.5M
1290	1290			O	Without ISO	B	B Type	155	1550			FA	FC/APC	08	0.8M
1310	1310							xxx	xxx0			SP	SC/UPC	10	1.0M
1330	1330											SA	SC/APC		
1350	1350											LP	LC/UPC		
1370	1370											LA	LC/APC		
1390	1390														
1410	1410														
1430	1430														
1470	1470														
1490	1490														
1510	1510														
1530	1530														
1550	1550														
1570	1570														
1590	1590														
1610	1610														