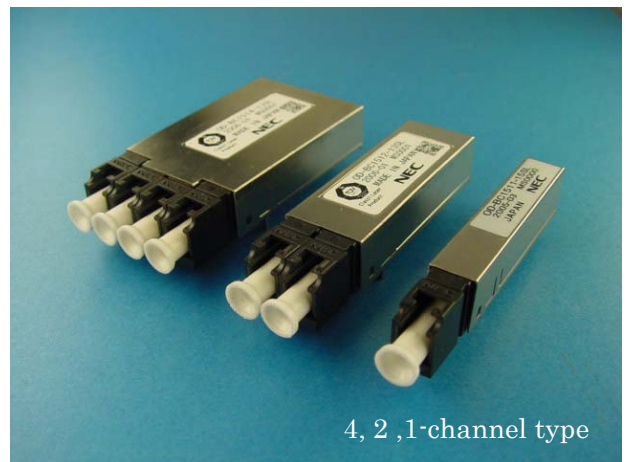


OD-BC122x

1.25Gbps 1.3 μ m/1.5 μ m WDM Bi-directional Compact SFF Transceiver

FEATURES

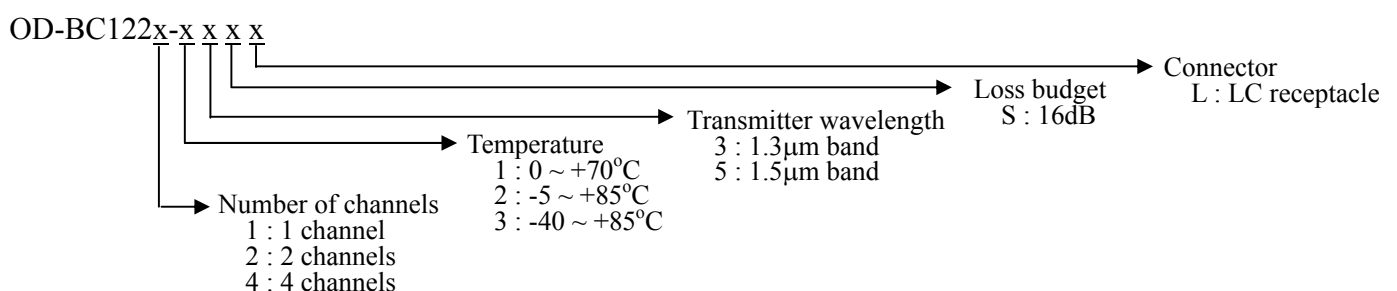
- Single fiber Bi-directional Optical Transceiver consists of
 - Transmitter
 - Receiver with 2R function
 - 1.3/ 1.5 μ m WDM function using Planar Lightwave Circuit (PLC)
- 1/2 Size of Conventional SFF Transceiver
- 1x10 Half-pitch Pin-out
- Compact SFF MSA compliant
- 1, 2 and 4-channel type
- 1.25Gbps Data Rate
- Signal Detect function
- Transmitter disable (TDis) function
- Single Power Supply Voltage of +3.3V
- Differential AC100 ohms Data Input/Output
- LC receptacle
- Lead-free and RoHS compliant
- Applied to Gigabit Ethernet



OPERATING CONDITIONS

Parameter	Unit	Values			Remarks
		Min.	Typ.	Max.	
Case Temperature	°C	0	—	+ 70	-1xxx
		-5	—	+ 85	-2xxx
		-40	—	+ 85	-3xxx
Power Supply Voltage	V	+ 3.135	+ 3.300	+ 3.465	
Power Supply Current	mA	—	—	250 / ch	

PRODUCT INFORMATION



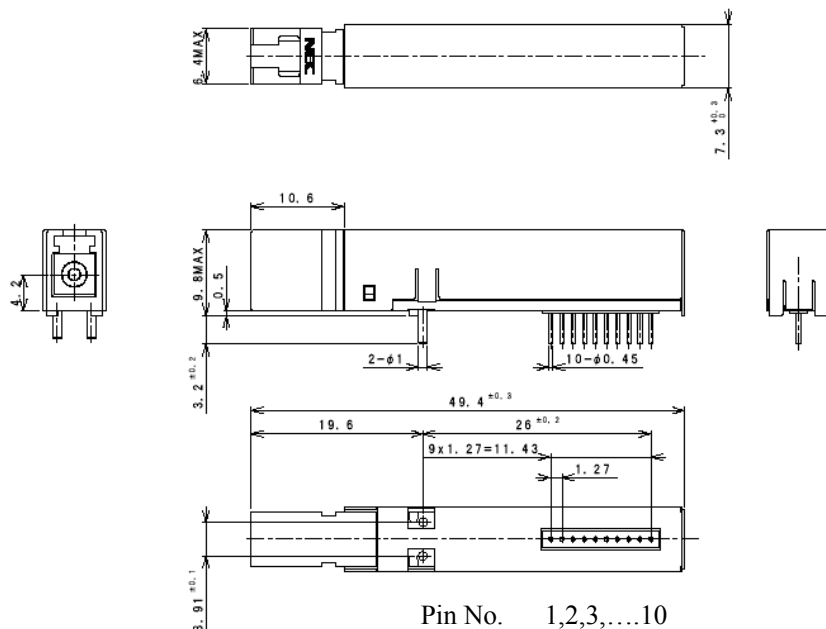
PERFORMANCE

Parameter	Unit	OD-BC122x	
		-13SL	-15SL
		1.3 μ m Tx / 1.5 μ m Rx	1.5 μ m Tx / 1.3 μ m Rx
Bit rate	Gbps	1.250	
TRANSMITTER			
Laser Diode type	—	MLM-LD	SLM-LD
Wavelength	nm	1260 ~ 1360	1480 ~ 1500
Spectral width (RMS)	nm	≤ 3.5	—
Spectral width (-20dB)	nm	—	≤ 0.88
Mean output power	dBm	-9 ~ -3	
Extinction ratio	dB	≥ 9.0	
Transmitter disable (TDis)	—	Optical Output Enable = Low Level or Open Circuit Optical Output Disable = High Level	
RECEIVER			
Wavelength	nm	1480 ~ 1500	1260 ~ 1360
2R sensitivity	dBm	≤ -20	≤ -20
2R overload	dBm	≥ -3	≥ -3
Signal Detect (S.D.)	—	Normal Operation = High Level Fault Condition = Low Level	

(*) performance for each channel

DIMENSIONS (Unit:mm)

(1-channel type (BC1221))



Pin Configuration

- | |
|-----------|
| 1. VEE T |
| 2. TD- |
| 3. TD+ |
| 4. TDis |
| 5. VCC T |
| 6. VEE R |
| 7. LOS |
| 8. RD- |
| 9. RD+ |
| 10. VCC R |

DATA SUBJECT TO CHANGE WITHOUT NOTICE

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