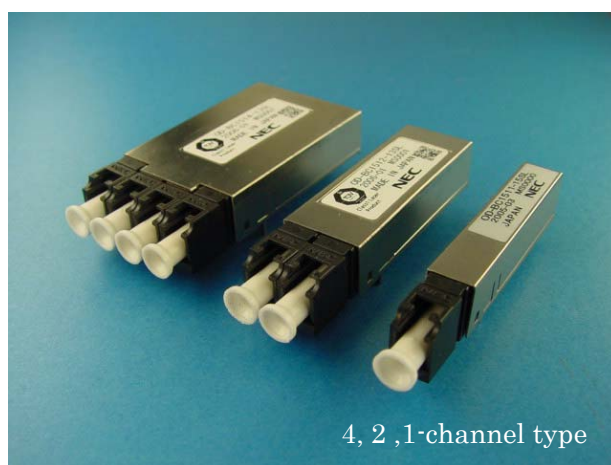


OD-BC151x

156Mbps 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
- 125 to 156Mbps 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 Fast Ethernet, SDH/SONET

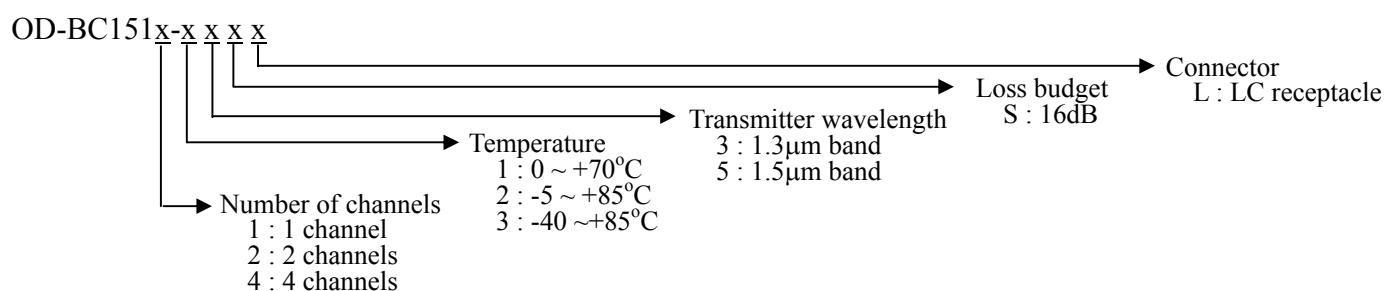


4, 2, 1-channel type

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



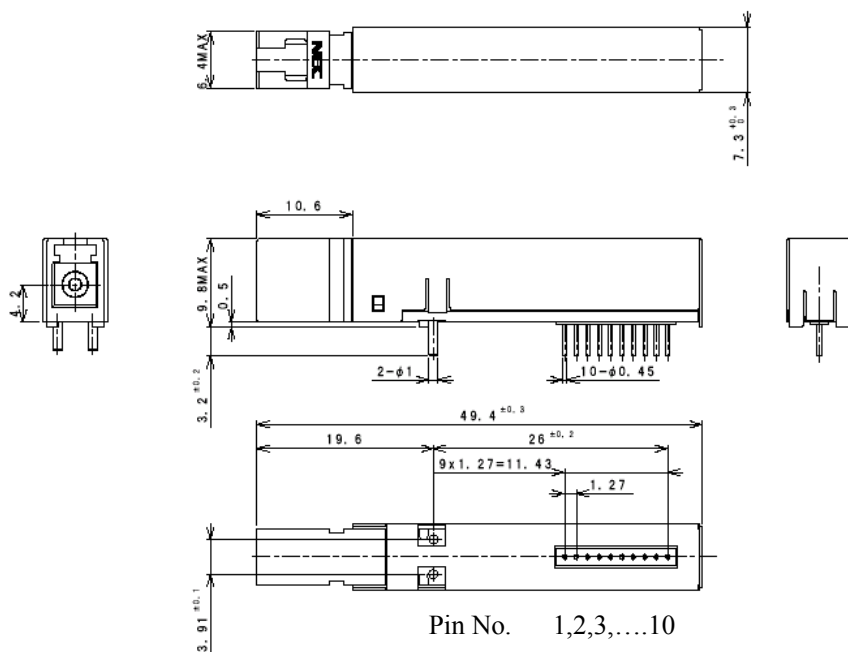
PERFORMANCE

Parameter	Unit	OD-BC151x	
		-13SL	-15SL
		1.3μm Tx / 1.5μm Rx	1.5μm Tx / 1.3μm Rx
Bit rate	Mbps	125 ~ 155.52	
TRANSMITTER			
Laser Diode type	—	MLM-LD	
Wavelength	nm	1260 ~ 1360	1480 ~ 1580
Spectral width (RMS)	nm	≤ 7.7	≤ 4.6
Mean output power	dBm	-14 ~ -8	
Extinction ratio	dB	≥ 8.2	
Transmitter disable (TDis)	—	Optical Output Enable = Low Level or Open Circuit Optical Output Disable = High Level	
RECEIVER			
Wavelength	nm	1480 ~ 1600	1260 ~ 1360
2R sensitivity	dBm	≤ -30	≤ -30
2R overload	dBm	≥ -8	≥ -8
Signal Detect (S.D.)	—	Normal Operation = High Level Fault Condition = Low Level	

(*) performance for each channel

DIMENSIONS (Unit:mm)

(1-channel type (BC1511))



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

NEC Corporation
Sales and Marketing Department, Fiber Optic Devices Division
(Shin Tamachi Building) 34-6, Shiba 5-chome, Minato-ku,
Tokyo 108-0014, Japan
Tel: +81-3-3798-5864 Fax: +81-3-3798-5857

<http://www.sw.nec.co.jp/on/dd/en/>

EWV-19-0197-01E, Jun., 2009
Copyright © 2009 NEC Corporation

NEC Electronics (Europe) GmbH
Sales and marketing of semiconductors across Europe
Arcadiastrasse 10, D-40472 Dusseldorf, Germany
Tel: +49-211-6503-0 FAX: +49-211-6503-1344

NEC Corporation of America (USA & Canada)
FiberOptech Division
Mail Stop# NC1000
2880 Scott Blvd, Santa Clara, CA 95050, U.S.A.
Tel: +1-408-844-1082 Fax: +1-408-844-1090

NEC