

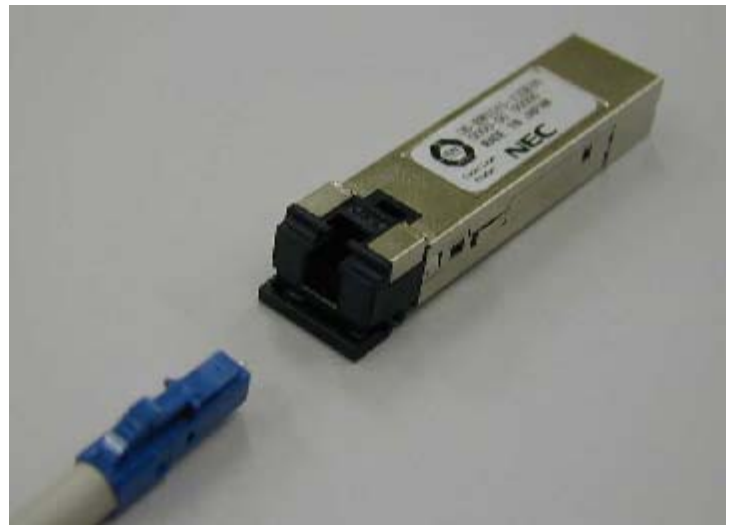
**Preliminary**

# OD-BP1221-xxxx

## 1.25Gbps 1.3 $\mu$ m/1.5 $\mu$ m WDM Single-fiber Bi-directional Optical Transceiver (Pluggable)

### FEATURES

- Single fiber Bi-directional Optical Transceiver  
Consists of -1.3/ 1.5 $\mu$ m WDM function.
- 1.063Gbps to 1.250Gbps Data Rates.
- Receiver with 2R function  
(Reshaping, Regenerating)
- Loss of Signal Detect (LOS) function.
- Transmitter disable (TX\_DISABLE) function.
- Single Power Supply Voltage of +3.3V.
- Differential LV-PECL Data Input/Output
- Hot-pluggable electrical interface
- Serial identification
- LC receptacle



### APPLICATION

- Gigabit Ethernet.
- Gigabit Fiber Channel.

### OPERATING CONDITIONS

Parameter	Unit	Values		
		Min.	Typ.	Max.
Ambient Temperature	°C	0	–	+ 70
Power Supply Voltage	V	+ 3.14	+ 3.30	+ 3.46
Power Supply Current	mA	–	230	–

# PERFORMANCE

Parameter	Unit	OD-BP1221	
		-13SL	-15SL
		1.3 $\mu$ m transmitter	1.5 $\mu$ m transmitter
		1.5 $\mu$ m receiver	1.3 $\mu$ m receiver
Bit rate	Gbps	1.063 to 1.250	
<b>TRANSMITTER</b>			
Laser Diode type	-	MLM-LD	SLM-LD
Wavelength	nm	1278 to 1351	1480 to 1500
Spectral width (RMS)	nm	<3	-
Spectral width (-20dB)	nm	-	< 1
Mean output power	dBm	-9 to -3	
Extinction ratio	dB	> 9	
<b>RECEIVER</b>			
Wavelength	nm	1480 to 1580	1275 to 1355
2R sensitivity	dBm	< -20	
2R overload	dBm	> -3	
Loss of Signal Detect (LOS)	-	Normal Operation = Low Level Fault Condition = High Level	
Transmitter disable function (TX_DISABLE)	-	Optical output enable = Low Level Optical output disable = High Level	

## PIN INFORMATION

20	VEET	1	VEET
19	TD-	2	TX_FAULT
18	TD+	3	TX_DISABLE
17	VEET	4	MOD_DEF(2)
16	VCCT	5	MOD_DEF(1)
15	VCCR	6	MOD_DEF(0)
14	VEER	7	_____*
13	RD+	8	LOS
12	RD-	9	VEER
11	VEER	10	VEER

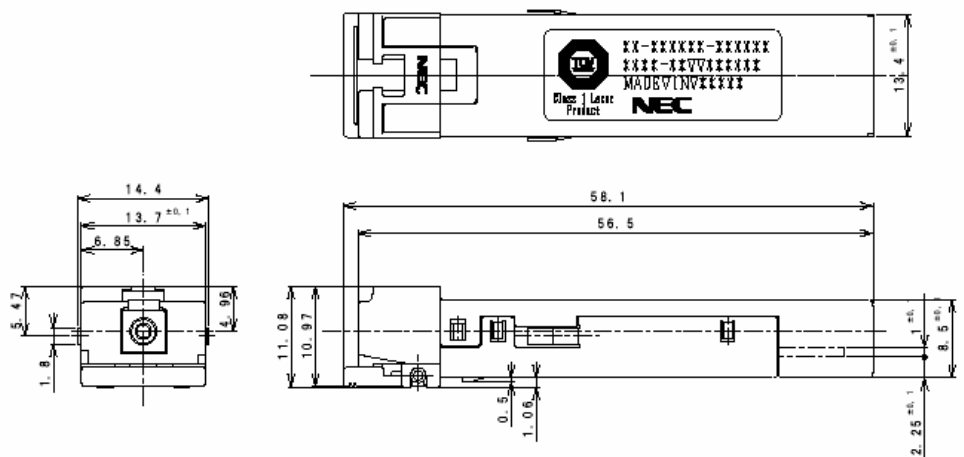
Top of Transceiver      Bottom of Transceiver

(as views thru Top of Transceiver)

\*: Option is not implemented.

## DIMENSIONS(TBD)

(Unit:mm)



DATA SUBJECT TO CHANGE WITHOUT NOTICE

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