

OD-BD06xxxL0001

1.25Gbps Bi-directional LOW POWER Compact SFP Transceiver

FEATURES

- 2-channel Bi-directional Optical Transceiver
- 2x Bi-directional transceivers in 1 SFP transceiver package
- The same package outline as conventional SFP transceiver
- Compact SFP MSA compliant
- 1.25Gbps Data Rate
- Single Power Supply Voltage of +3.3V
- **Low Power Consumption (Max 1.0W)**
- Differential AC 100 ohms Data Input/Output
- Loss of Signal (LOS) indication
- Transmitter Fault (TX_FAULT) indication
- Transmitter Disable (TX_DISABLE) function
- Serial identification and Digital Diagnostic Function (SFF-8472)
- LC receptacle
- Lead-free and RoHS compliance
- Applied to Gigabit Ethernet (1000BASE-BX)

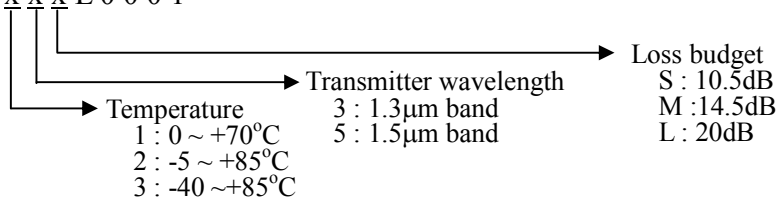


OPERATING CONDITIONS

Parameter	Unit	Values			Remarks
		Min.	Typ.	Max.	
Case Temperature	°C	0	—	+ 70	OD-BD061xxL0001
		-5		+ 85	OD-BD062xxL0001
		- 40		+ 85	OD-BD063xxL0001
Power Supply Voltage	V	+ 3.135	+ 3.300	+ 3.465	
Power Consumption	mW	—	600	1000	OD-BD06xxSL0001 OD-BD06xxML0001
			800	1200	OD-BD06xxLL0001

PRODUCT INFORMATION

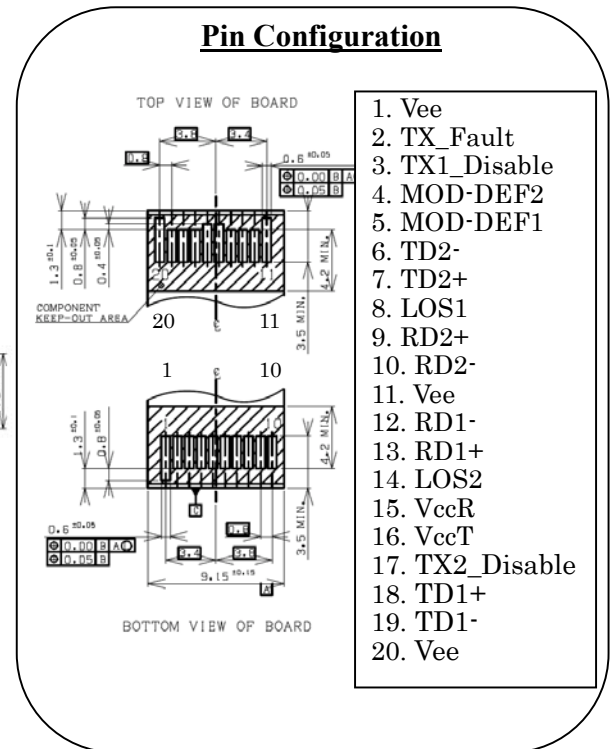
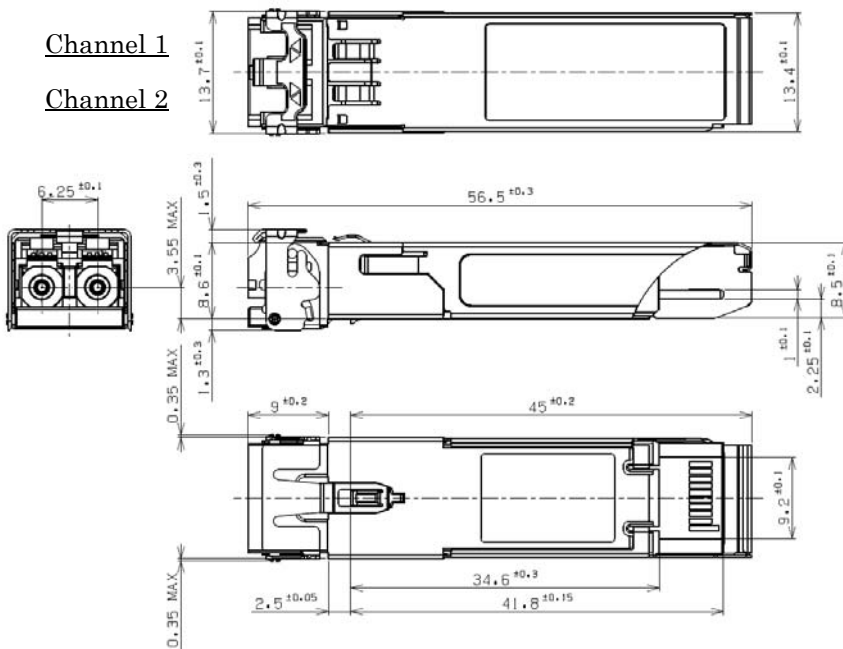
OD-BD06 x x x L 0 0 0 1



PERFORMANCE

Parameter	Unit	OD-BD06x3xL0001			OD-BD06x5xL0001		
		1.3 μ m Tx / 1.5 μ m Rx			1.5 μ m Tx / 1.3 μ m Rx		
		x3SL	x3ML	x3LL	x5SL	x5ML	x5LL
Bit rate	Gbps	1.25					
TRANSMITTER							
Laser Diode type	–	MLM-LD	SLM-LD				
Wavelength	nm	1260 ~ 1360	1290 ~ 1330		1480 ~ 1500		
Spectral width (RMS)	nm	≤ 3.5	–				
Spectral width (-20dB)	nm	–	≤ 0.88				
Mean output power	dBm	-9 ~ -3	-8 ~ -3	-5 ~ 0	-9 ~ -3	-8 ~ -3	-5 ~ 0
Extinction ratio	dB	≥ 9					
Transmitter disable (TDis)	–	Optical Output Enable = Low Level or Open Circuit Optical Output Disable = High Level					
RECEIVER							
Wavelength	nm	1480 ~ 1500			1260 ~ 1360	1290 ~ 1330	
2R sensitivity	dBm	≤ -19.5	≤ -22.5	≤ -25	≤ -19.5	≤ -22.5	≤ -25
2R overload	dBm	≥ -3		≥ 0	≥ -3		≥ 0

DIMENSIONS (Unit:mm)



DATA SUBJECT TO CHANGE WITHOUT NOTICE

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