1.25Gbps 1550nm DFB LD Module with FC Receptacle flange (C Pinning)

AB-OPT-DFB-1550-FC
Ver. A

Feature



- 1550 nm Wavelength InGaAsP / InP MQW-DFB laser diodes (LD)
- Data Rate: 155 Mbps up to 1.25Gbps
- Uncool
- Low threshold current
- Hermetically sealed
- -40℃ to +85℃ operating temperature
- InGaAs monitor PIN photodiode (PD)
- Package in TOSA Receptacle typing for FC connector

Application

- SONET OC-3/12
- SDH STM-1/4
- Insertion/Return loss meter
- Point to Point Link
- Light source for Test equipment

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Storage temperature	Tstg	-40~+85	℃
Operating case temperature	Top	-40~+85	℃
Peak optical output power	Po	7	mW
Forward current (LD)	I_{FLD}	120	mA
Reverse voltage (LD)	V_{RLD}	2	V
Reverse current (PD)	I_{RPD}	2	mA
Reverse voltage (PD)	V_{RPD}	15	V
Soldering temperature	Stemp	260	℃
Soldering time	Stime	10	sec

AIBAO reserves the right to make changes in the specification described hereinafter without prior notice.

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Specifications

Parameter	Symbol	Condition	Values			Unit
			MIN.	TYP.	MAX.	
Central wavelength	λc	CW, Pf	1530	1550	1570	nm
		CW, Pf, Tc=-40~85℃	1520		1580	
Side-mode suppression ratio	SMSR	CW, Pf	30	35	—	dB
Threshold current	Ith	CW	—	9	15	mA
		CW, Tc=-40~85℃	—	—	40	
Fiber output power	Pf	CW, If=Ith+20mA	1.0			mW
Operating voltage	Vop	Pf	—	1.2	1.6	V
Rise time / Fall time	Tr / Tf	Ib = Ith, 20%~80%	—	0.25	0.5	nsec
Tracking error	△Pf / Pf	APC , -40℃~+85℃	—	±0.7	±1.5	dB
Monitor current	Im	Pf , Vrp =5V	80	300	—	uA
Monitor dark current	Id	Vrp = 5V	—	—	10	nA
		Vrp = 5V, Tc=-40~85℃	—	—	100	
Monitor capacitance	C	Vrp = 5V, 1MHZ	—	—	10	pF

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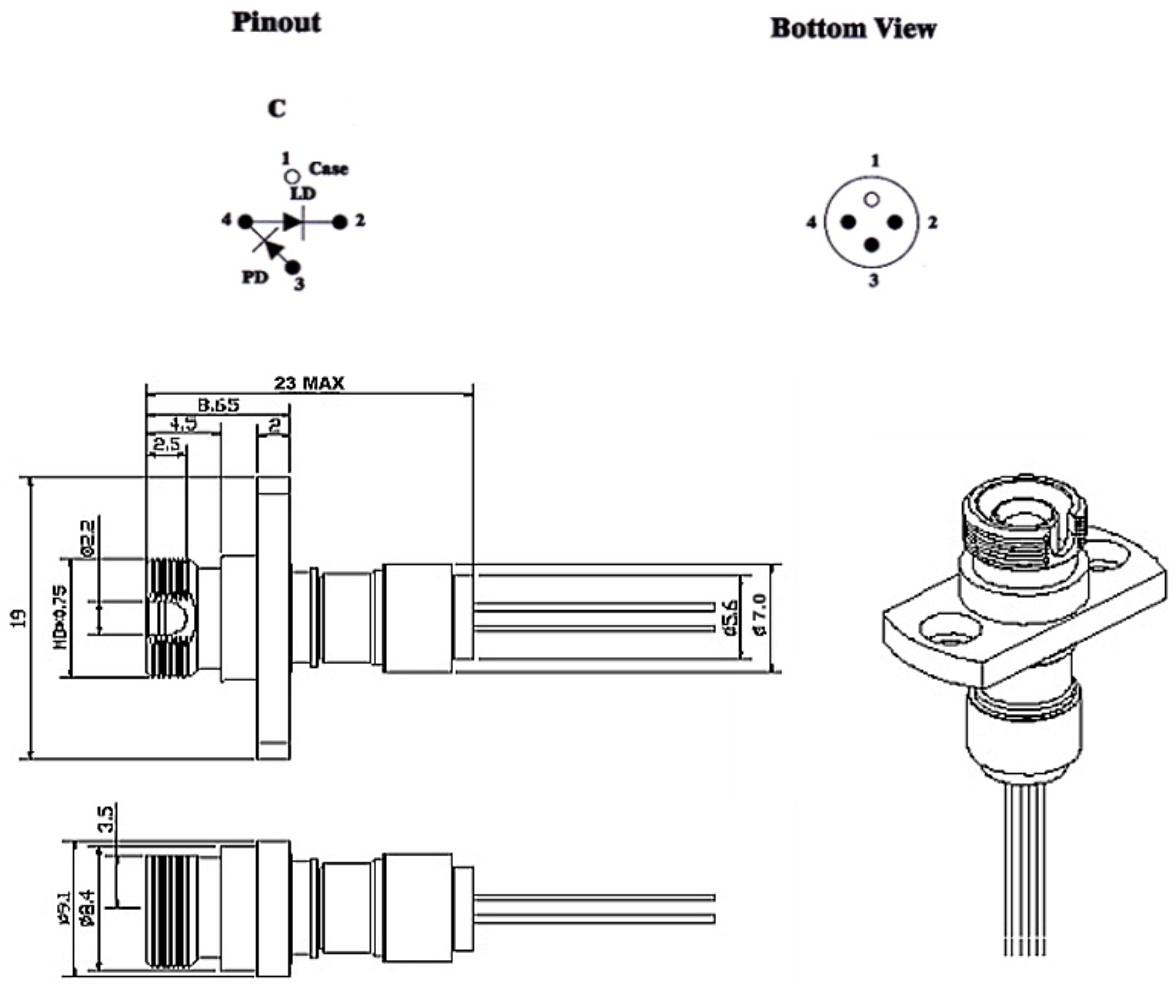
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Dimension in mm



Handling Precaution

1) This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.
2) All adjustments have been made at the factory prior to the shipment of the devices. No maintenance or alteration to the device is required. Tampering with or modifying the performance of the device will result in voided product warranty.

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