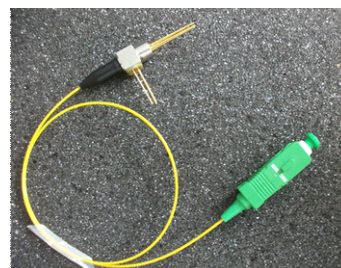


## T1310FP/R1550nm 155M Pigtail BOSA

### FB-35223ASx-00

**Features:**

High stability FP laser chip  
InGaAs/InP PIN detector with TIA  
Operate temperature from -40°C to +85°C  
SC&FC&LC pigtail connector



**Specification:**

**Absolute Maximum Ratings**

Parameter	Symbol	Condition	Min	Max	Unit
Operating Case Temperature	$T_c$	--	-40	85	°C
Storage Temperature	$T_{stg}$	--	-40	85	°C
Lead solder Temperature	--	--		260	°C
Lead Soldering Time	--	--		10	s

**Optical/Electrical Characteristics (T=25°C, unless otherwise stated)**

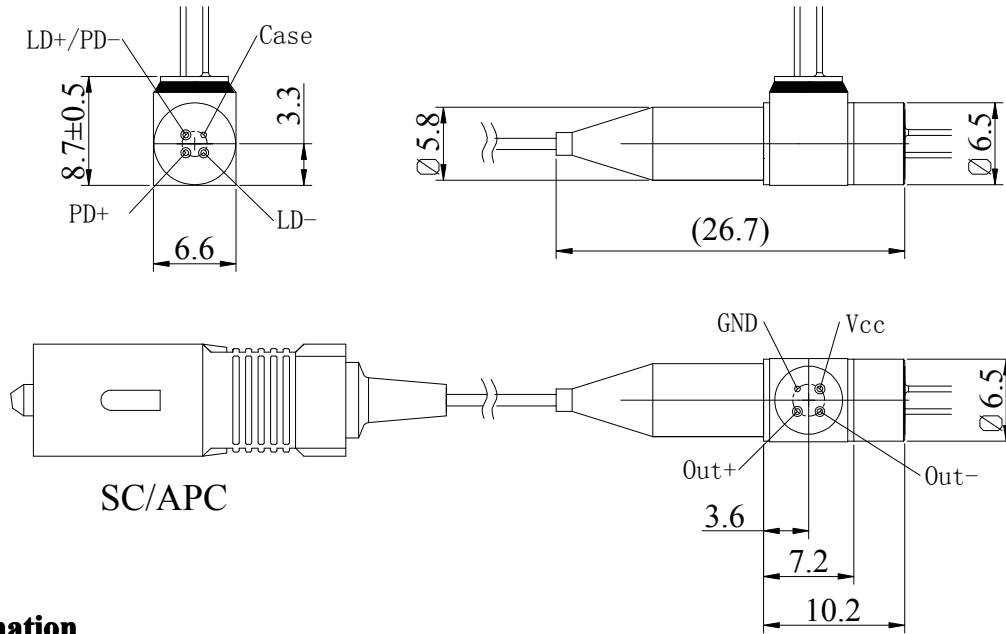
**1310nm FP Laser Transmitter**

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Optical Output Power	$P_o$	0.1	--	0.5	mW	CW, $I_{op}=30mA$
Threshold Current	$I_{th}$	--	10	15	mA	$T=25\text{ }^\circ\text{C}$
Forward Voltage	$V_F$	--	1.1	1.6	V	
Operating Current	$I_{op}$	--	30	35	mA	CW, $T=25\text{ }^\circ\text{C}$
Center Wavelength	$\lambda_c$	1290	1310	1330	nm	CW, $T=25\text{ }^\circ\text{C}$
Spectral Width (-20 dB)	$\Delta\lambda$	--	--	4	nm	
Rise/Fall Times	$t_R, t_F$	--	--	0.2	ns	20% to 80%
Monitor Current	$I_{mon}$	100	--	800	$\mu A$	$V_R=5\text{ V}$ ,
Monitor Dark Current	$I_D$	--	--	0.1	$\mu A$	$V_R=5\text{ V}$

**1550nm 155Mbps Receiver**

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Supply Voltage	VCC	3.0	-	5.5	V	
Supply Current	ICC	-	-	35	mA	No loads
Differential responsivity	$R_d$	0.1	--	120	mV/uW	$R_{load}=100\ \Omega$ , $\lambda=1550nm$
Single ended responsivity	$R_s$	0.05	--	60	mV/uW	$R_{load}=50\ \Omega$ , $\lambda=1550nm$
Small-Signal Bandwidth	Bw	115	-	-	MHZ	$\lambda = 1550\text{ nm}, P_f=10\mu W$
Rise /Fall Time(20%~80%)	$T_r/f$		-	4.5	ns	$\lambda = 1550\text{ nm}, P_f=10\mu W$
Saturation Power	$P_{sat}$	-3			dBm	$\lambda=1550nm$
Wavelength	$\lambda$	1450	1550	1600	nm	
Single ended output impedance	$R_o$	--	50	--	ohm	
Sensitivity			-36	-34	dBm	$\lambda = 1550\text{ nm}, 155Mbps,$ $BER=1E-10$

**Dimensions And Package Outline  
(SC/APC Pigtail Connector)**



**Order information**

FB-35223ASx-00

- Optical Connector:
- 1--SC/PC Pigtail
  - 2-- SC/APC Pigtail
  - 3--FC/PC Pigtail
  - 4--FC/APC Pigtail
  - 7--LC/PC Pigtail
  - 8--LC/APC Pigtail