BU-GU3448-20C

2.5G SC/UPC BOSA T13DFB/R14 GPON

General Specification

- 1310nm DFB LD
- InGaAs PIN- TIA Receiver With a1490nm WDM Filter
- Bitrate: 2.5Gb/s
- Connector Type：SC/UPC Pigtail
- High Sensitivity
- Operation Temperature From -5℃ to +75℃
- Optical Isolation>30dB,Cross Talk<-40dB
- RoHS compliant Products Available

Absolute Maximum Ratings

Table 1: Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	T_{STG}	-40	+85	℃
Operating Temperature (ambient)	T_{OPR}	-5	+75	℃
Supply Voltage	V_{CC}		5	V
Lead Soldering Temperature (Max10 sec)	T_S	---	260	℃
Forward Current (LD)	I_{FLD}	---	150	mA
Reverse Voltage (LD)	V_{RLD}	---	2	V
Forward Current (MPD)	I_{FMPD}	---	2	mA
Reverse Voltage (MPD)	V_{RMPD}	---	20	V
Forward Current (PD)	I_{FPD}	---	2	mA
Reverse Voltage (PD)	V_{RPD}	---	20	V
LD To-canPull Force		30		Kgf
PD To-canPull Force		15		Kgf

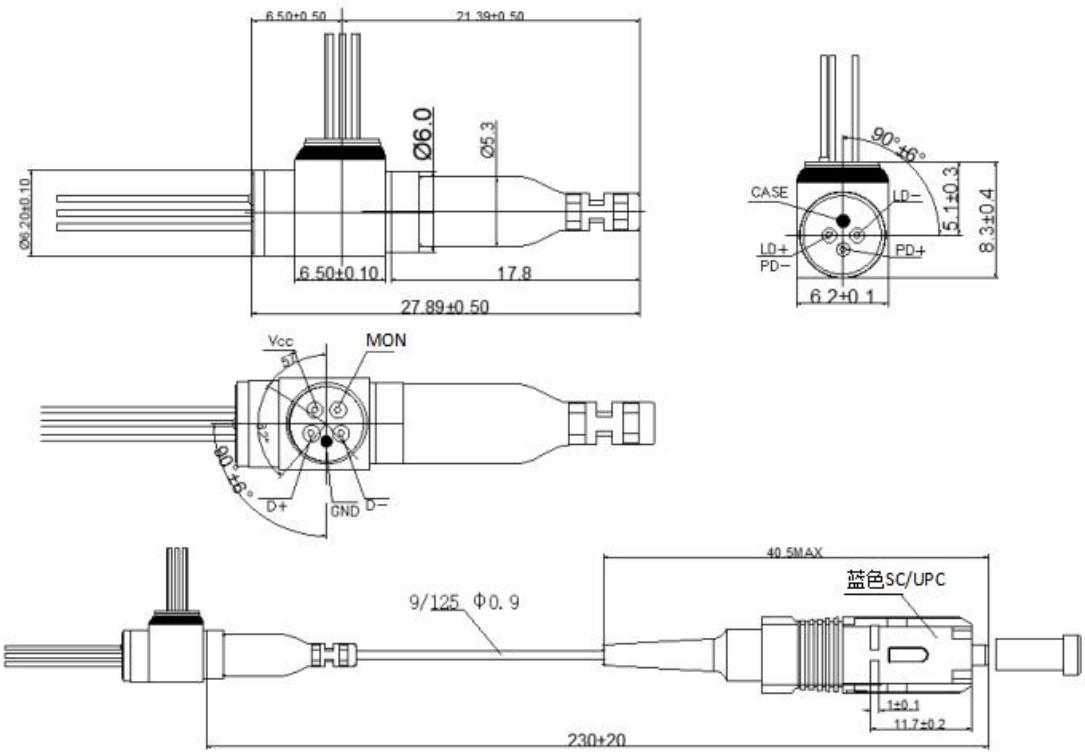
Electric and Optical Characteristics

Test Condition: λ_C=CW, V_{CC}=+2.97V~+3.63V, T_C= -5~+75℃, unless otherwise noted

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Transmitter						
Threshold Current	I_{TH}	3	---	15	mA	T_C=25℃
		---	---	40		T_C= -5~+75℃,
Forward Voltage	V_F	---	---	1.6	V	P_F=P_F (Min), T_C =25℃
Optical Output power	P_f	0.6	---	1.2	mW	CW, @Ith+20mA, 25℃
Center Wavelength	λ_C	1290	---	1330	nm	CW, T_C=-5~75℃
Spectral Width (-20dB)	Δλ	---	---	1	nm	CW, @Ith+20mA ,T_C=-5~75℃
Side-mode suppression ratio	SMSR	30	---	---	dB	T_C=-5~75℃
Rise/Fall Time	T_R/T_F	---	---	260	ps	P_F=0.6mW, Extinction Ratio > 10dB, 20%-80%, without filter
Monitor Current	I_m	100	---	1000	uA	CW, @Ith+20mA, V_{RMPD}=1.5V, Tc=25C,
Tracking Error	$\Delta P_f/P_f$	-1.5	---	+1.5	dB	-5~+75℃,CW,P_f (Ith+20mA)@Im hold
Receiver						
Supply Voltage	V_{CC}	2.97	3.3	3.6	V	
Supply Current	I_{cc}	---	39	45	mA	No Load
Optical Wavelength	λ	1470	1490	1510	nm	
Sensitivity	Sens	---	---	-29	dBm	2.5Gbps, RBS2^{23} -1 BER=10^{-10},ER=9dB
Saturation Power	Psat	-3	---	---	dBm	
Output Resistance	R_{OUT}	25	---	60	Ω	Single Ended
Upper -3dB Bandwidth	BW	---	1.4	---	GHz	
Dark current of RSSI	I_d			200	nA	V_{PD}=3.3V Tc=-5~+75℃
Optical Crosstalk	X_{TALK}	---	---	-40	dB	1310nm/1490nm
ESD Requirement	ESD	500	---	---	V	

Mechanical& Pin description requirement

Unit:mm



Package dimension and pin assignment

For More Information

Tel:+86-755-23301665
E-mail : sales@fibertoptech.com
Web: http://www.fibertopsfp.com