



## BOSA 10Gbps

### Features:

- High-stability 1xx0nm DFB laser
- InGaAs PIN Photodiode
- Single +3.3V power Supply

### Applications:

- Optical communication systems

### Specifications:

#### Absolute Maximum Ratings

#### Transmitter Optical& Electrical Characteristics (T=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Threshold Current	I <sub>th</sub>	25	--	--	12	mA
		85	--	--	40	mA
Forward Voltage	V <sub>f</sub>	I <sub>op</sub> =I <sub>th</sub> +20mA	--	--	1.7	V
Monitor Current(MPD)	I <sub>m</sub>	I <sub>op</sub> =I <sub>th</sub> +20mA	50	--	1000	uA
Dark Current(MPD)	I <sub>d</sub>	V <sub>r</sub> =5V	--	--	100	nA
Optical Output Power	P <sub>o</sub>	I <sub>op</sub> =I <sub>th</sub> +20mA,25	0.8	--	1.6	mW
		I <sub>op</sub> =I <sub>th</sub> +20mA,85	0.5	--	--	mW
Slope efficiency	SE	I <sub>op</sub> =I <sub>th</sub> +20mA,25	0.04	--	0.08	mW/mA
		I <sub>op</sub> =I <sub>th</sub> +20mA,85	0.025	--	--	mW/mA
Central Wavelength	W	I <sub>op</sub> =I <sub>th</sub> +20mA				

**XIAMEN SAN-U OPTRONICS CO., LTD.**

SU-01-19-A-07-B70J

06

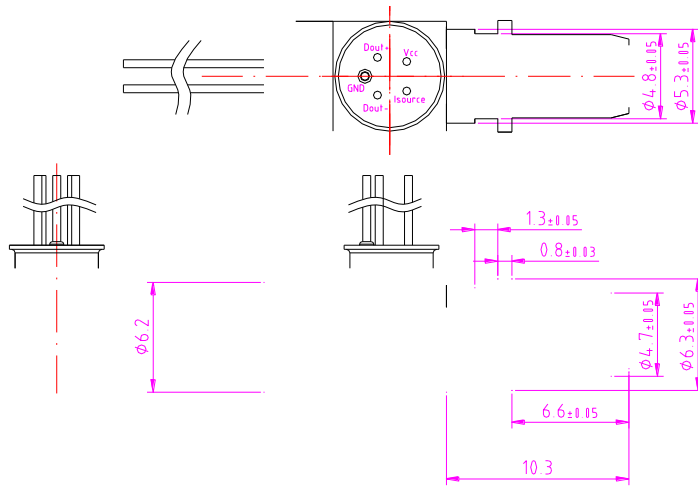
2019.09.12

2

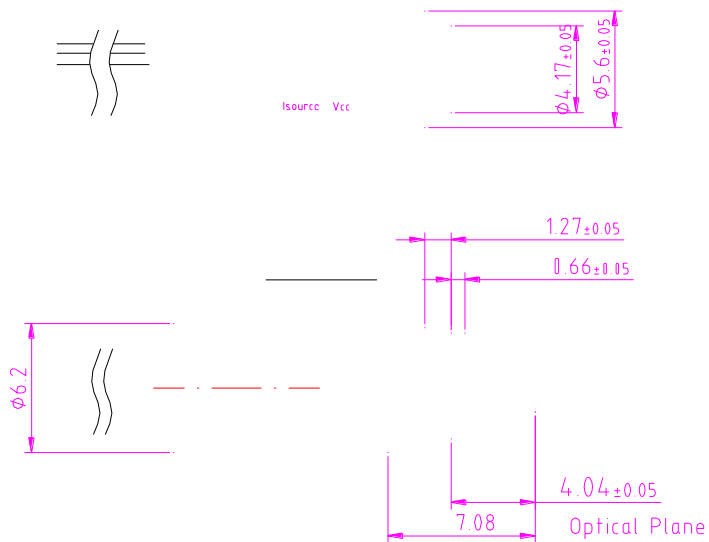
4



TYPE - C



TYPE - D



Order Information:

BOSA  10Gbps

<u>Receptacle</u> LC SC	<u>TX Central Wavelength</u> 1270 DFB 1330 DFB	<u>RX Central Wavelength</u> 1270nm 1330nm	<u>Outline Dimension</u> A:TYPE A B:TYPE B C:TYPE C D:TYPE D
-------------------------------	--	--	--



**Statement:**

SAN-U owns the authority for final explanation of all information contained in this document, which is subject to change without notice. All the information was obtained in particular environments; and SAN-I b VY Y b VY Y Y aUbW YW aY UW U operating environments. All information contained is only for the users' reference and shall not be considered as warranted characteristics. SAN-U will not be liable for damages arising directly or indirectly which from any use of the information contained in this document.

---

**Contact Information:**

Address: N501-505 Weiye Bldg., Xiamen Pioneering Park For Overseas Chinese Scholars, Xiamen, Fujian, China

Tel: +86-592-3898601, 3898608, 5318000

Fax: +86-592-5703588

Email: sales@san-u.com

<http://www.san-u.com>

---