

## CWDM DFB Pigtail TOSA

### FT-xx6G2xxx-00

#### 1. Description:

The FT-xx6G2xxx-00 is a CWDM DFB Pigtail TOSA modules have been designed specifically for OTDR over a single fiber. The devices are particularly suited for OTDR application.

#### 2. Features:

High stability MQW-DFB laser chip  
 CWDM : from 1270nm to 1610 nm, each Step 20 nm  
 Built-in InGaAs monitor photodiode  
 Data rate Up to 3Gbit/s  
 Operate temperature from -40°C to +85°C  
 LC&SC&FC Pigtail Connector  
 Follow RoHS



#### 3. Application:

- OTDR
- CWDM system
- Other analog transmission system

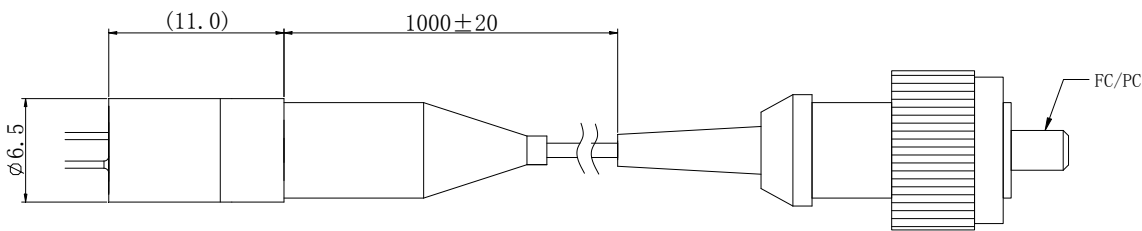
#### 4. Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Condition
<b>Module</b>					
Operating Case Temperature	Top	-40	+85	°C	
Storage Temperature	Tstg	-40	+85	°C	
Solderability	Stemp	--	350°C(<5S)	°C,S	ANSJ/J-ATD-002
			260°C(<10S)	°C,S	
ESD susceptibility	ESD	--	300	V	
<b>Laser Diode</b>					
Forward Current	If	--	120	mA	CW
Forward Voltage	Vf	--	2	V	CW
Monitor PD Forward Current	Imf	--	2	mA	
Monitor PD Reverse Voltage	Vmf	--	10	V	
Fiber tensile load (10 sec. Max.)	--	10	--	N	

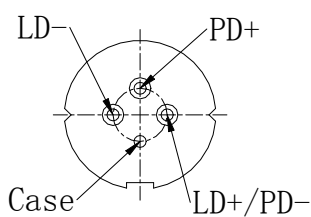
### 5. Optical/Electrical Characteristics (T=25°C , unless otherwise stated)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Optical Output Power	$P_o$	2	--	--	mW	CW, $I_{op}=30mA$
Threshold Current	$I_{th}$	--	8	15	mA	T=25 °C
Forward Voltage	$V_F$	--	1.1	1.6	V	
Operating Current	$I_{op}$	--	30	40	mA	CW, T=25 °C
Center Wavelength	$\lambda_c$	$\lambda_p-3$	$\lambda_p$	$\lambda_p+3$	nm	CW, T=25 °C
Side-mode Suppression Ratio	SMSR	35	40	--	dB	$I_{op}=30mA$
Isolator		35			dB	
Spectral Width (-20 dB)	-	--	0.1	1.0	nm	
Rise/Fall Times	$t_R, t_F$	--	--	0.1	ns	20% to 80%
Monitor Current	$I_{mon}$	100	--	1000	$\mu A$	$V_R=5 V$ ,
Monitor Dark Current	$I_D$	--	--	0.2	$\mu A$	$V_R=5 V$
Tracking error	TE	-1.5	--	1.5	dB	-40°、85°

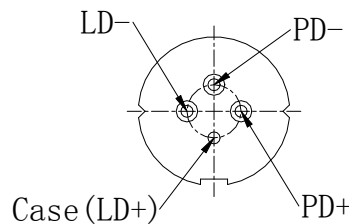
### 6. Dimensions And Pin Type



#### Pin Type(Bottom view)

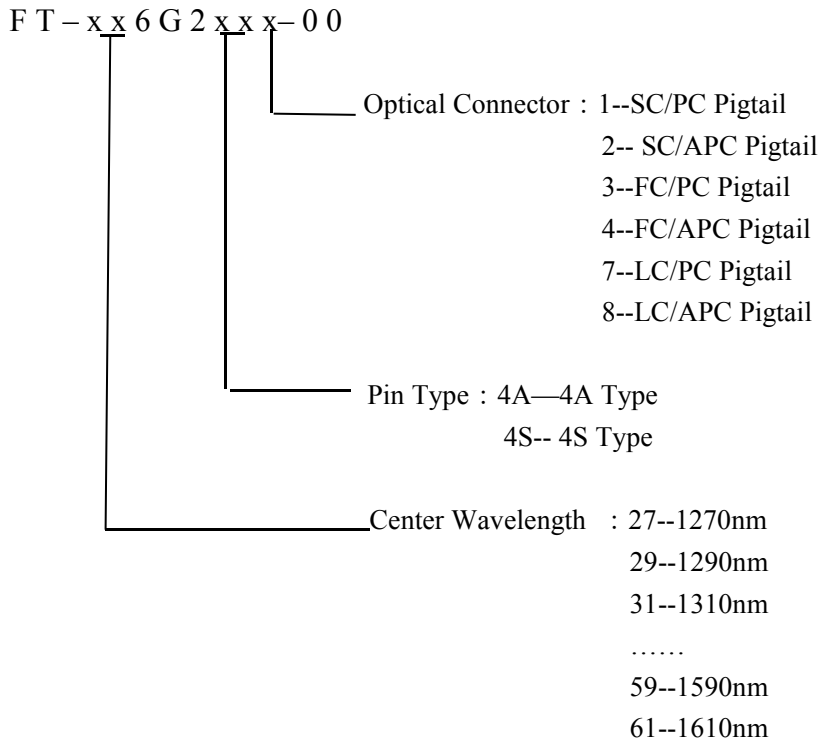


4A-TYPE



4S-TYPE

## 7. Order information



## 8. Contact us

Jiangsu Fiber Grid CO., LTD  
 Add: No.21 Building, 36 Nan Wei Si Lu, Zhenjiang High-Tech New City, Zhenjiang, Jiangsu China  
 Zip code:212009  
 Tel: (86)511-88698558/118  
 (86)511-88693941/188  
 Fax: (86)511-88698557  
 Email:sales@fiber-grid.com  
 Web: www.fiber-grid.com  
 www.fiber-grid.net