

## 450nm 10mW FP Pigtail Laser Diode

### 1. Features:

- Single mode FP LD;
- TO-56 package;
- High reliability, long life(>2000H);
- Operating temperature range:-10~70°C;
- Telcordia GR-468 reliability test standard.

### 2. Applications:

- Medical;
- Automotive electronics;
- LiDAR Sensors;
- Laser printing.

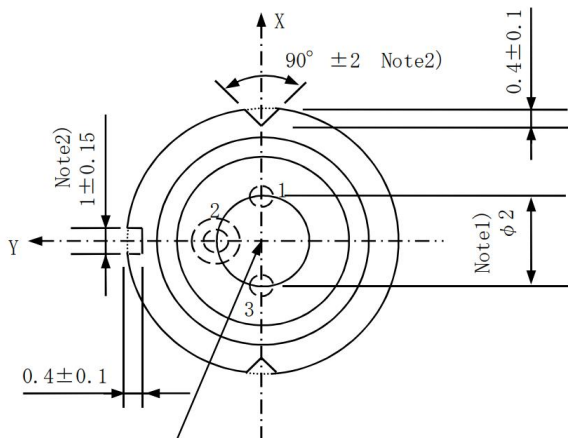
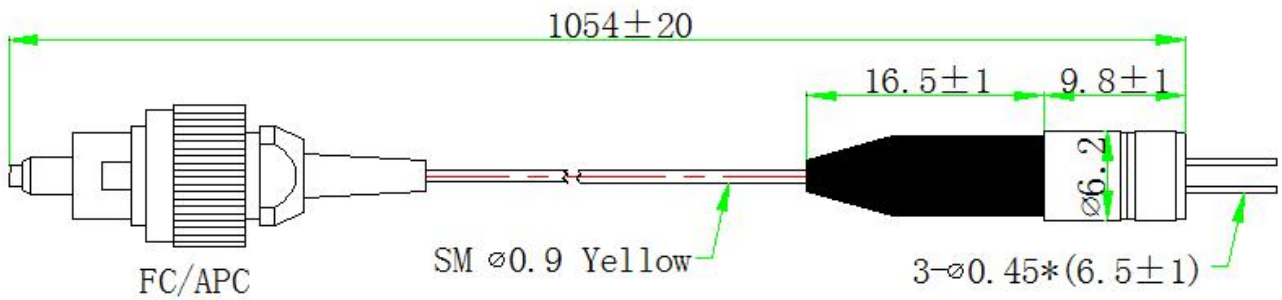
### 3. Absolute Maximum Ratings (Tc=25°C):

Parameter	Symbol	Ratings	Unit
LD Reverse voltage	V <sub>RLD</sub>	2	V
Operating case temperature	T <sub>OP</sub>	-10 ~ +70	°C
Storage Temperature	T <sub>ST</sub>	-40 ~ +85	°C
Lead soldering(Temperature)/(Time)	-	260/10	°C/Sec

### 4. Optical-Electro Characteristics:

Parameter	Symbol	Test Condition	Min	Typ.	Max	Unit
Center wavelength	$\lambda_C$	P <sub>OP</sub> = P <sub>F</sub>	440	450	460	nm
Optical output power	P <sub>F</sub>	I <sub>F</sub> = 65mA	10	20	-	mW
Threshold current	I <sub>TH</sub>	CW	-	22	40	mA
Operating voltage	V <sub>F</sub>	CW	-	5.1	6.0	V
Operating current	I <sub>F</sub>	CW	-	70	90	mA
Fiber type	-	-	460-HP			

**5. Package Drawing&PIN-OUT Definition(Unit:mm):**



**Bottom view**

PIN No.	Symbol
1	LD Anode
2	NC
3	LD Cathode

**6. Odering Information**

**BLD-F45010F-FA**

BLD	-X	XX	XX	X	-XX
LD	Chip type	Wavelength	Output power	PIN-OUT	Connector
Laser diode	F: FP	450: 450nm	10: 10mW Other	F: Type F	FA: FC/APC