

## YPC8748-C

## 10G 850nm PIN TIA TO

### Features:

- ◆ Data rates up to 10Gb/s
- ◆ GaAs PIN+TIA
- ◆ Differential output
- ◆ Low voltage power supply: 3.3V
- ◆ Industry TO-46 package of lens Cap

### Application:

- Optical communication system
- Instruments and Apparatuses

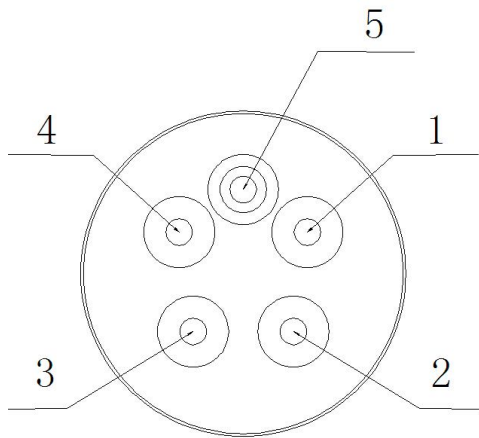
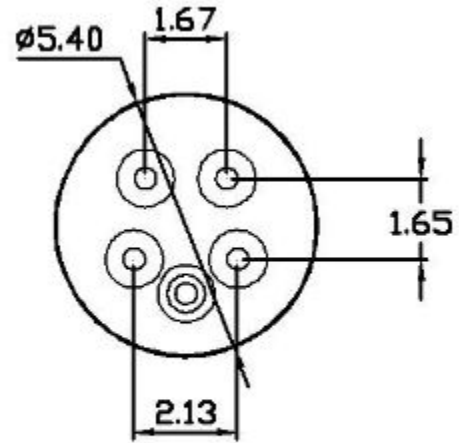
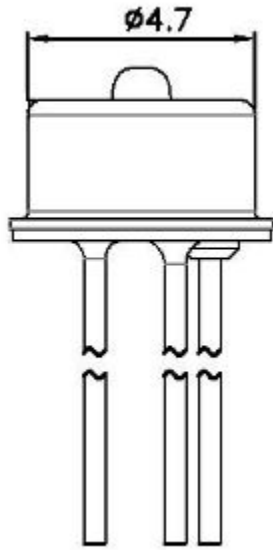
### Specification:

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Wavelength	$\lambda$	-	770	-	860	nm
Supply Voltage	V <sub>CC</sub>	-	3.0	3.3	3.6	V
Supply Current	I <sub>CC</sub>	-	-	28	-	mA
Responsivity	R	$\lambda = 850\text{nm}$	-	0.40	-	A/W
Bandwidth	BW	50Ohm load, -3dB, U <sub>bias</sub> =-5V	-	10	-	GHz
Sensitivity	Sens	ER = 4.5-5.0dB, BER = 10 <sup>-12</sup> , PRBS 2 <sup>31</sup> -1	-	-	-13.0	dBm
Saturation Power	P		0	-	-	dBm
Differential resistance	R <sub>s</sub>	-	-	50	-	$\Omega$
Rise and fall time	Tr/Tf	-	-	-	40	ps

### Absolute Maximum Ratings:

Parameter	Symbol	Rating	Unit
Supply Voltage	V <sub>CC</sub>	3.6	V
Operating Temperature	T <sub>OP</sub>	-40 ~ +85	°C
Storage Temperature	T <sub>ST</sub>	-40 ~ +85	°C
Lead solder temperature	-	260/10	°C/S
ESD (HBM)	-	1A 级, <500	V

**Dimensions:**



1	OUT+
2	VCC
3	RSSI
4	OUT -
5	GND