

Pigtail type InGaAs APD with preamp G8930 series

FEATURES

- High speed response:2.5Gbps
- Typical sensitivity:-31dBm
- Typical overload:-5dBm

ABSOLUTE MAXIMUM RATINGS

(Ta=25deg.C)

Parameter	Symbol	Value	Unit	Remarks
Supply Voltage	V _{cc}	-0.5, +6	V	
Reverse Voltage (APD)	V _R	0 to V _B	V	
Operating Temperature	Topr	-40 to +85	deg.C	
Storage Temperature	Tstg	-40 to +85	deg.C	

ELECTRICAL AND OPTICAL CHARACTERISTICS

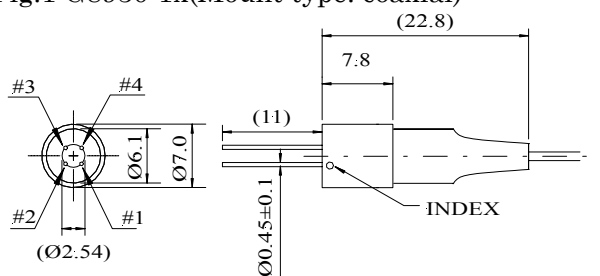
(Unless Otherwise Noted Ta=25deg.C, V_{cc}=3.3V, V_{ee}=0V, R_L=50Ω)

Parameter	Symbol	Conditions	Min	Typ.	Max	Unit
Supply Current	I _{cc}	Dark state, R _L =∞		35		mA
Photo Sensitivity (APD+PRE-AMP)	S ₂	Pin=-27dBm Single-ended M=10	λ = 1.3um	11		V/mW
			λ = 1.55um	11		
Breakdown Voltage	V _B	I _D =10uA	40	50	70	V
Bandwidth	f _c	M=10, Pin=-27dBm, -3dB		2000		MHz
Sensitivity		2.5Gbps, NRZ PRBS=2 ²³ -1, BER=10 ⁻¹⁰ VR: The Best Voltage	-31	--	-5	dBm

DIMENSIONAL OUTLINE

Fig.1 G8930-1x(Mount type: coaxial)

Unit:mm, Unless otherwise noted: ±0.2

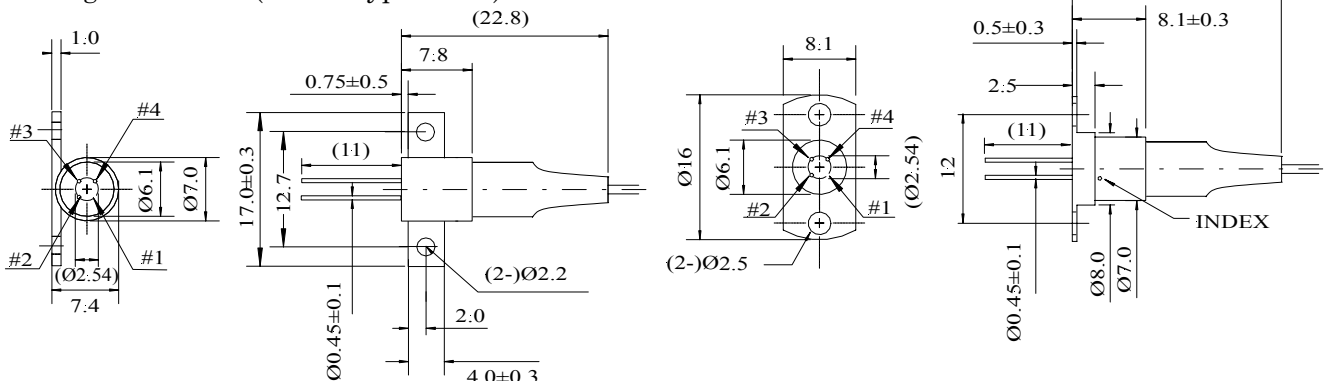


PIN CONNECTION

- #1 V_{cc}
- #2 V_{out}-
- #3 V_{ee}
- #4 V_{out}+

Fig.3 G8930-3x(Mount type:panel)

Fig.2 G8930-2x(Mount type:board)



Four connector types are available; SC/SPC(-21), FC/SPC(-22), MU(-23), LC(-24).