



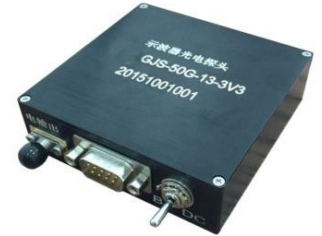
# ULTRA WIDE BAND PHOTODETECTOR

## FEATURES

- ◆ Bandwidth 50 MHz~18 GHz
- ◆ Simple power supply
- ◆ Small size/light-weight/strong capability of anti-electromagnetism

## APPLICATIONS

- ◆ Analog signal communication
- ◆ Test and measurement
- ◆ Radio frequency optical transmission link



## KEY TECHNICAL PARAMETERS

ELECTRICAL SPECIFICATIONS					
PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
Operating frequency	3dB bandwidth	MHz	0.05		50000
Saturated optical power		mW	-	10	13
Responsivity		mA/mW	-	0.65	0.75
Gain flatness		dB			±2
Group delay	Peak-to-peak (≥500MHz)	ns		0.1	0.2
VSWR	RX RFout				2:1
Input power at 1dB compression		dBm		10	
Spurious-free dynamic range	10GHz Dot Frequency	dB/Hz <sup>2/3</sup>		110	
Maximum input power	No damage	dBm			16
RF connector	V female				
Impedance	RX RFout	Ohms		50	
NOTE: -10dBm input power, 1m of fiber(Access to the optical transmitter)					
* Test dot frequency 10 GHz					



## POWER SUPPLY AND CONTROL REQUIREMENTS

PARAMETERS	CURRENT/ROOM TEMPERATURE 25 °	PIN	MIN.	TYP.	MAX.
DC power source	DC power supply	DC	2.8V	3V	3.3
Battery supply feed*	9V dry battery		8.8	9	9.2

NOTE:\* Two forms for power supply, external DC and internal battery, choose at the power switch.DC for the power source; B for the battery, battery can be replaced.

## SIZE AND STRUCTURE

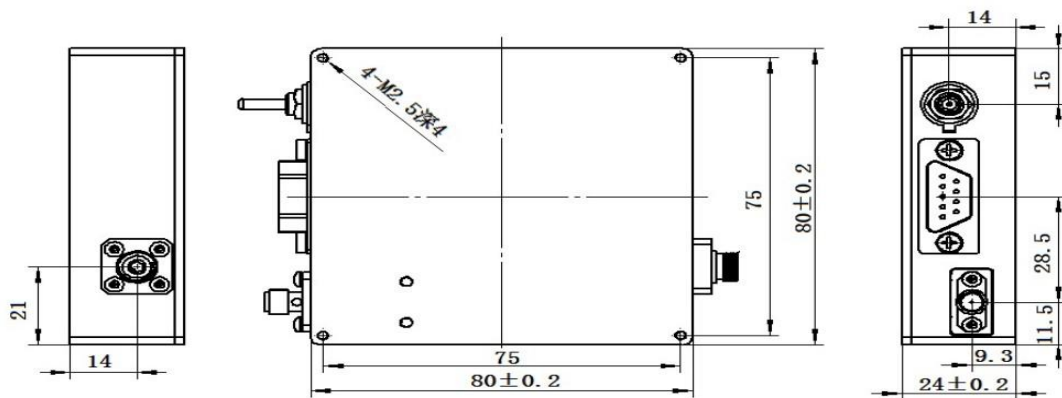


Figure 2—Size and structure diagram

## ENVIRONMENTAL CONDITIONS

Quality level	Commercial(O)	Industrial(I)	Custom(C)
Environmental			
Operating temperature	0°C ~ +40°C	-20°C ~ +50°C	-55°C ~ +70°C
Storage temperature	0°C ~ +50°C	-40°C ~ +70°C	-55°C ~ +85°C
Relative humidity	\	95%	95%
Vibration	\	\	RMS meet different requirements
NOTE	If you have special requirements please contact manufacturer		



## ORDERING INFORMATION

