



ROF-PR-200M series photodetector



ROF-PR-200M series photodetector integrates high-speed PIN detector and low noise amplifier, fiber or free space coupling, SMA connector output, with high gain, high sensitivity, gain flat and other characteristics, mainly used for analog optical signal reception and fiber optic sensing systems.

product feature:

- Spectral range : 320-1000、850-1650nm
- 3dB bandwidth 200MHz
- Low noise
- High gain
- Optical fiber space coupling input optional

Application:

- Weak signal detection
- Heterodyne detection

performance parameters:

Type Parameter	ROF-PR-200M-A		ROF-PR-200M-B	
Spectral response range	850~1650nm		320~1000nm	
Material type	InGaAs		Si	
Light input	Optical fiber	Free space	Optical fiber	Free space
Photosensitive surface diameter	-	75um	-	200um
-3dB bandwidth	200MHz		200MHz	



Rise time	1.5ns	1.5ns
Responsiveness	0.9A/W@1550nm	0.5A/W@700nm
Gain	1.4×10 ⁴ V/W	0.7×10 ⁴ V/W
Min detection power	-39dBm	-36dBm
Noise equivalent power	10pw/vHz	20pw/vHz
Saturation optical power	320μW	640μW
Operating voltage	DC ±15V	
Operating circuit	80mA	
Input connector	FC / Free space	
Output connector	SMA(f)	
Output impedance	50Ω	
Output coupling method	DC	
Dimensions	76.0 × 72.6 × 44.0	

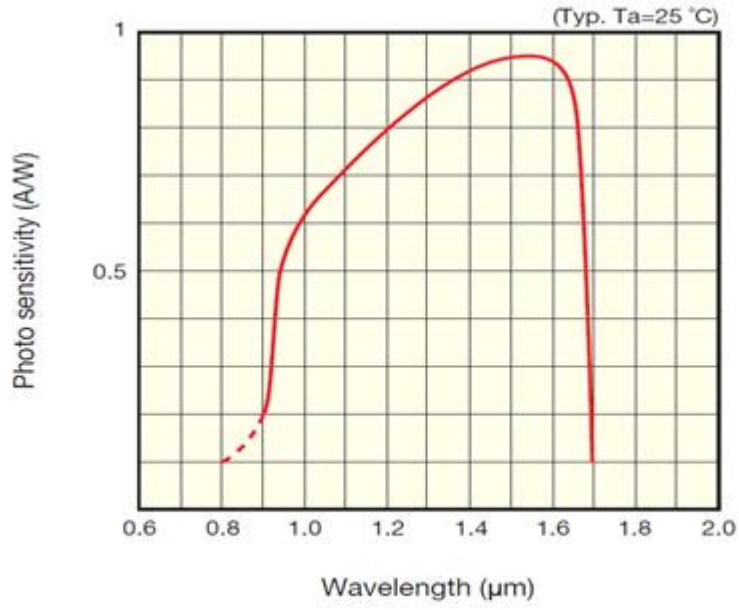
order information:

ROF	PR	200M	X	XX
	Photoreceiver	-3dBbandwidth: 200MHz	Operating wavelength: A---850~1650nm B---320~1000nm	Input type FC ----optical fiber coupling FS ----Free space

*please contact our seller if you have special requirements

Limit conditions:

parameter	symbol	unit	Minimum value	Typical value	Maximum value
Input optical power	Pin	mW			10
Operating Voltage	Vop	V	±13.5	±15	±16.5
Operating temperature	Top	°C	-10		60
Storage temperature	Tst	°C	-40		85
humidity	RH	%	5		90



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