



ROF-APR series APD Photodetector



The high sensitivity Avalanche Photodetector is mainly composed of ROF-APR series APD Photodetector (APD photoelectric detection module) and HSP low speed high sensitivity module, which has high sensitivity and wide spectral response range and can provide different sizes of packages according to customer requirements.

product feature:

Spectral range: 850-1650nm, 400-1000nm
Response frequency up to 1GHz

Low noise

High-gain fiber

Spatially coupled input is optional

Application:

Optical fiber sensing

Biomedical device

Fiber optic gyroscope
Spectral analysis



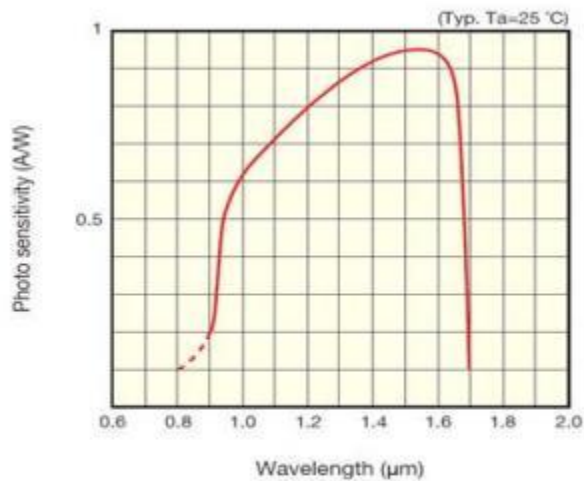
performance parameters:

Model	Wavelength range	3dB bandwidth	Photosensitive surface	Gain V/W	Sensitivity	Output connector
APR-1G	800-1700nm	DC-1GHz	50 μ m	8×10^3	-33dBm	SMA(f)
	400-1000nm		200 μ m	1×10^4	-36dBm	
APR-500M	800-1700nm	DC-500MHz	75 μ m	1.8×10^4	-35 dBm	
	400-1000nm		200 μ m	4.2×10^4	-38 dBm	
APR-200M	800-1700nm	DC-200MHz	300 μ m	1.1×10^5	-42 dBm	
	400-1000nm		1.5mm	5.5×10^5	-45 dBm	

*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	$^{\circ}\text{C}$	-10		60
Storage temperature	Tst	$^{\circ}\text{C}$	-40		85
humidity	RH	%	5		90



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