

## DVS Coherent Receiver Module



### Description:

DVS coherent receiving module is mainly used for amplitude demodulation distributed optical fiber vibration sensor (DVS) applications. The module has the characteristics of high SNR of coherent detection, and the output signal is amplitude signal. It can be directly used in DVS system without modifying demodulation algorithm; On the basis of coherent detection with high signal-to-noise ratio, the analog signal is denoised inside the module to maximize the signal-to-noise ratio, which can reduce the application of the system optical amplifier module and reduce the system cost.

### Features:

- High SNR of coherent detection
- Directly used in DVS system
- No need to modify the algorithm
- Low noise isolation power supply
- Reduce system costs

### Application:

- Distributed light based on amplitude
- Demodulation Fiber Vibration Sensing (DVS)

## Specifications:

Product Model		DCRM-40M-A	DCRM-80M-A	DCRM-200M-A	Unit
Wavelength		800~1700	800~1700	800~1700	nm
Bandwidth		40M	80M	200M	Hz
Detector Responsivity		0.95@1550nm	0.95@1550nm	0.95@1550nm	A/W
Transimpedance Gain		60k	60k	60k	V/A
Optical Input	Local	<5	<5	<5	mW
	Signal	300	300	300	μW
Supply Voltage		5	5	5	V
Supply Current		0.5(max)	0.5(max)	0.5(max)	A
Output Coupling Mode		AC	AC	AC	
Optical Fiber Type		SMF-28			
Optical Input		FC/APC			
Radio Frequency Output		SMA			

## Test Result:



