

ROF ABC-MZ

Automatic bias point control module

ROF-ABC-MZ series automatic bias control module is used for automatic bias control of lithium niobate M-Z modulator, which can make the modulator work stably at the lowest point, the highest point or the orthogonal point (linear region). The module is also integrated with 1/99 coupler, which can control the switching of the working point through the external serial port, and supports manual adjustment mode, which is suitable for a variety of different wavelength modulators and applications, and is very suitable for university laboratories to build desktop experiments.

Feature

- Multiple bias operating modes are available (Quad+ ↔ Quad-, Min ↔ Max)
- Serial communication, programmed automatic fine tuning and locking bias points
- Internal component beamers support a variety of wavelengths
- Module package, adapter power supply

Application

- Optical fiber communication
- Microwave photon
- Pulsed light application

Parameters



Argument	Min	Typical	Max	Unit
Optical parameter				
Input optical power 1*	0		13	dBm
Operating wavelength 2*	780		1650	nm
Optical fiber interface	FC/APC			
Electrical parameter				
Bias voltage	-10		10	V
Switch extinction ratio 3*	20	25	50	dB
Mode-locked region	Positive or Negative			
Lock mode	Quad+ (Quad-) or Min (Max)			
Modulation depth (QUAD)		1	2	%
Modulation depth (Null)			0.1	%
Pilot frequency (QUAD)		1K		Hz
Pilot frequency (NULL)		2K		Hz
Conventional parameter				
Dimensions (length × width × thickness)	120×70×34 mm			
Operating temperature	0 - 70℃			



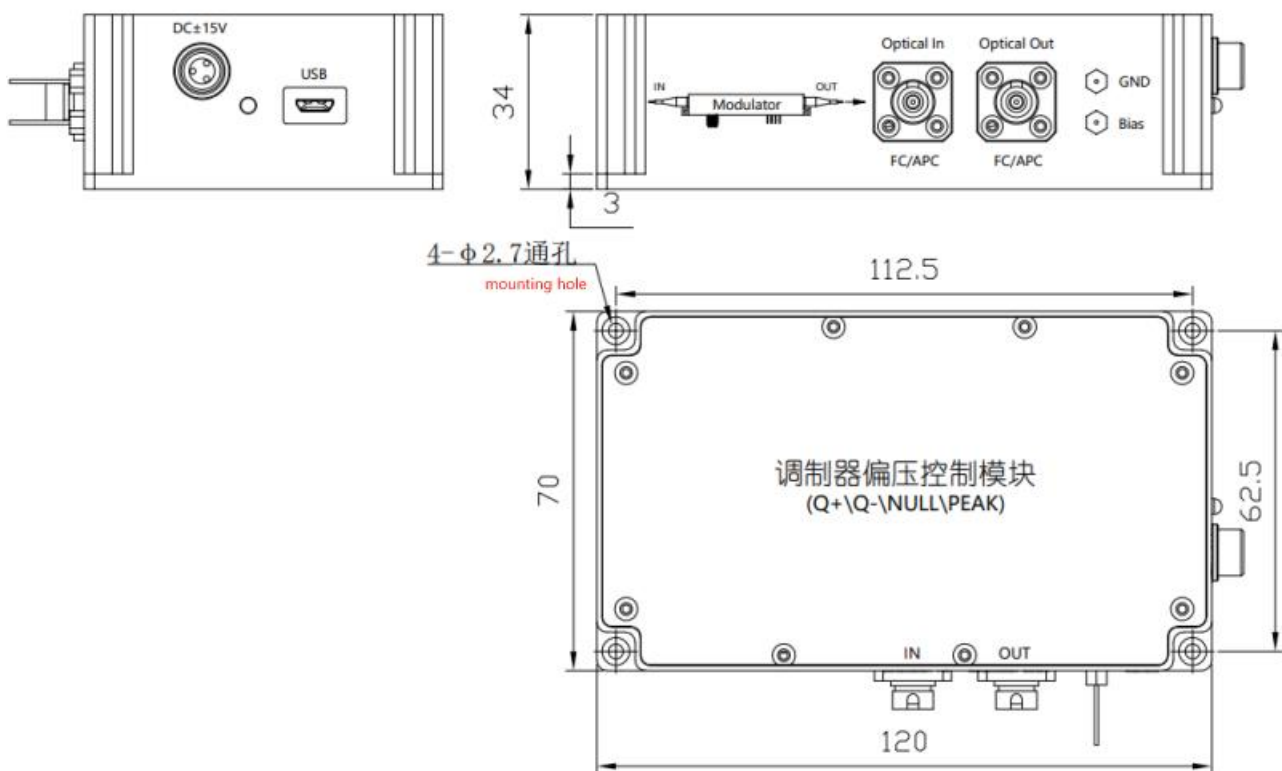
Note:

1* refers to the power range input to the module when the modulator output is maximum. For the low point control of the modulator with a high extinction ratio, the input power should be appropriately increased; With special power input requirements, you can adjust the internal coupler and detector gain indicators, please consult sales when placing orders.

2* When placing an order, please specify the working wavelength, which needs to be optimized according to the working wavelength.

3* switching extinction ratio also depends on the switching extinction ratio level of the modulator itself.

Size drawing (mm)



Ordering information

ROF	ABC	Modulator type	XX	XX	XX
	Automatic bias point control module	MZ---M-Z modulator	Working wavelength: 15---1550nm 13---1310nm 10---1064nm 08---850nm 07---780nm	Fiber type: S-- Single mode optical fiber P - polarization-maintaining fiber	Optical fiber interface: FA---FC/APC FP---FC/UPC

*If you have any special requirements, please contact our sales staff