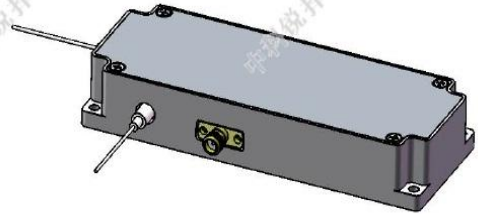


Double Pass Optic Integrated AOM Module

◆ Product introduction

Using acousto-optic modulator (AOM) to control laser frequency, switch light and generate modulation sideband is a common technical means, which is often used in optical systems of quantum optics, cold atoms, ion traps, quantum calculation and quantum precision measurement. Double Pass acousto-optic modulation is that the laser passes through AOM twice, and the +1st order diffracted light passes through AOM twice to obtain a double modulated laser signal. Optical fiber coupled acousto-optic Double Pass integrated module can realize double modulation of sum and arbitrary laser, and output double modulated Double Pass laser signal. The input and output are optical fiber coupled output, and the wavelength can be customized at 400-1100nm.



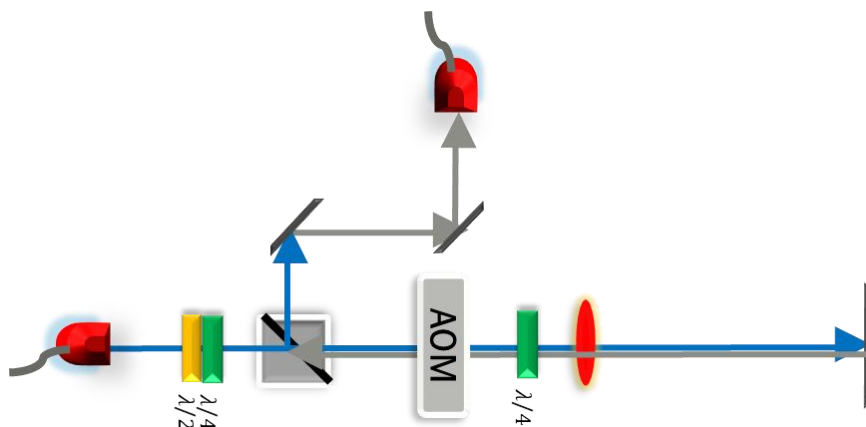
◆ Product features

- High polarization stability
- High coupling efficiency
- Miniaturized design, small size
- Modular design, easy integration
- Strong environmental stability

◆ Application

- Cold atomic system
- Quantum optics
- Ion trap system
- Quantum precision measurement system
- Quantum computing

◆ Optical path principle



◆ Parameter index

Model	Wavelength (nm)	Frequency (MHz)	Insertion Loss (dB)	Polarization Extinction Ratio (dB)	Extinction Ratio (dB)	Rising/Falling Edge (ns)
FAOM-D-420-200-PM	420	200	≤3.5	≥20	≥55	≤10
FAOM-D-461-200-PM	461	200	≤3.5	≥20	≥55	≤10
FAOM-D-509-80-PM	509	80	≤3.5	≥20	≥55	≤10
FAOM-D-532-200-PM	532	200	≤3.5	≥20	≥55	≤10
FAOM-D-632-80-PM	632	80	≤3.5	≥22	≥50	≤50
FAOM-D-632-100-PM	632	100	≤3.5	≥22	≥50	≤45
FAOM-D-632-200-PM	632	200	≤3.5	≥22	≥55	≤10
FAOM-D-729-100-PM	729	100	≤3.0	≥25	≥50	≤45
FAOM-D-780-80-PM	780	80	≤2.5	≥25	≥50	≤45
FAOM-D-780-100-PM	780	100	≤3	≥25	≥50	≤45
FAOM-D-780-110-PM	780	110	≤3	≥25	≥50	≤45
FAOM-D-780-180-PM	780	180	≤3	≥25	≥55	≤20
FAOM-D-780-200-PM	780	200	≤3	≥25	≥55	≤10
FAOM-D-813-100-PM	813	100	≤3	≥22	≥50	≤45
FAOM-D-852-80-PM	852	80	≤3	≥22	≥50	≤50
FAOM-D-852-110-PM	852	110	≤3	≥22	≥50	≤45
FAOM-D-852-200-PM	852	200	≤3	≥22	≥55	≤10
FAOM-D-1013-200-PM	1013	200	≤3	≥22	≥55	≤10