



## 632nm Full Bandwidth Free-Space Acousto-Optic Modulator 100MHz



### ● Product Description

The Idealphotonics' acousto-optic modulator allows users to adjust the output light's amplitude, duration, and frequency/period. The insertion loss can be as low as 2 dB, the extinction ratio can be as high as 50 dB, the rise time can be as fast as 5 nanoseconds, and the frequency can reach up to several hundred MHz. Applications include switching, pulse picking, fast



attenuation, and more. The wavelength range extends from near ultraviolet to near infrared.

- **Product features**

0th-order and 1st-order optical fiber output 、 High extinction ratio 、 Customizable devices according to the customer's wavelength and frequency requirements

- **Part Number**

MP-AOM-632-100M-1mm

- **Application area**

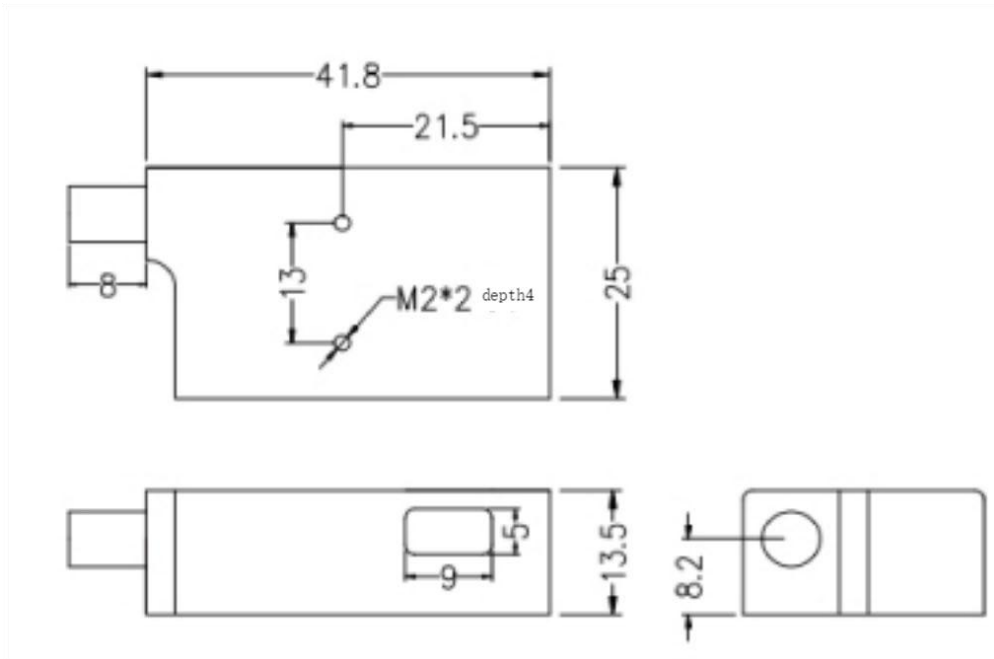
BODTR、 DVS、 Optical switch

- **Core parameters**

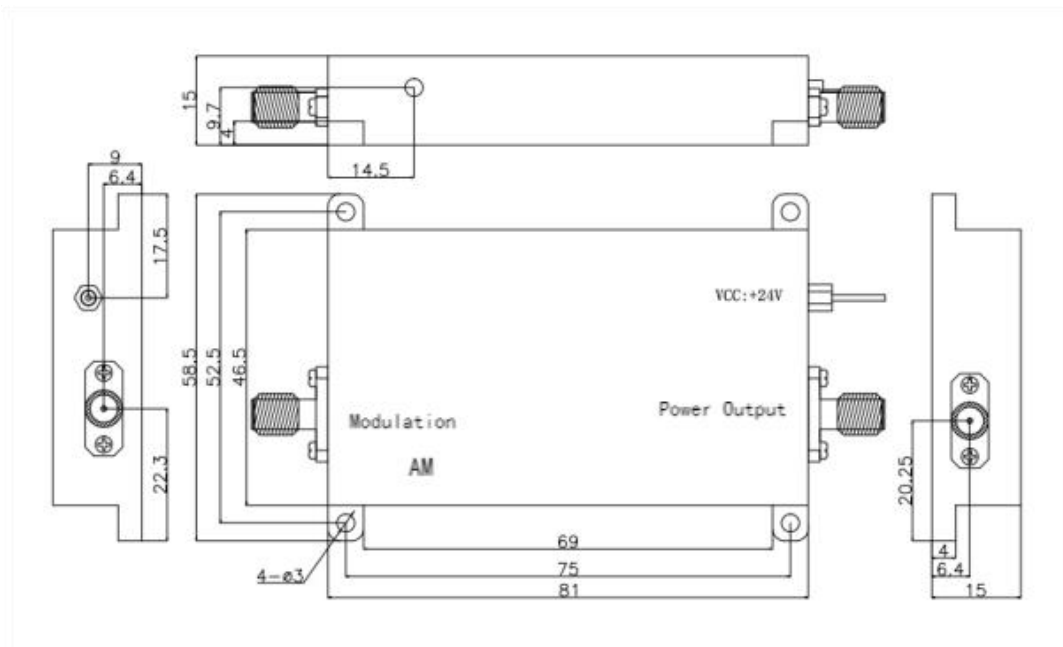
Wavelength	Frequency	Clear Aperture
632nm	100MHz	1mm

## ● Dimensions

### AOM Modulator



### RF Driver





## ● General Parameters

### Main Parameters

Part Number	Wave length (nm)	Frequency (MHz)	Clear Aperture (mm)	Diffraction Efficiency (%)	Optical Power Density (W/m <sup>2</sup> )	Drive Power (W)	Input Resistance (Ω)	VS (WR)
MP-AOM-532-80M-1mm	532	80	1	85	250	0.8	50	<1 .3: 1
MP-AOM-532-80M-2mm	532	80	2	85	250	1.5	50	<1 .3: 1
MP-AOM-532-100M-1mm	532	100	1	85	250	0.8	50	<1 .3: 1
MP-AOM-532-200M-0.3mm	532	200	0.3	70	250	2	50	<1 .5: 1



MP-AOM-532 -200M-4mm	532	200	4	80	250	4	50	<1 .5: 1
MP-AOM-632 -80M-1mm	632	80	1	85	250	0.8	50	<1 .3: 1
MP-AOM-632 -100M-1mm	632	100	1	85	250	0.8	50	<1 .3: 1
MP-AOM-632 -200M-0.3m m	632	200	0.3	70	250	2.5	50	<1 .5: 1
MP-AOM-632 -200M-1mm	632	200	1	85	250	1.5	50	<1 .5: 1
MP-AOM-780 -110M-1mm	780	110	1	85	250	1.3	50	<1 .3: 1
MP-AOM-780 -150M-1mm	780	150	1	75	250	2	50	<1 .3: 1
MP-AOM-780	780	150	2	75	250	2.5	50	<1



-150M-2mm								.5: 1
MP-AOM-780								<1
-200M-0.3m m	780	200	0.3	70	250	3	50	.5: 1
MP-AOM-780								<1
-200M-2mm	780	200	2	70	250	3.5	50	.5: 1
MP-AOM-850								1.
-110M-0.7m m	850	110	0.7	80	250	1	50	2: 1
MP-AOM-850								<1
-200M-0.3m m	850	200	0.3	80	250	3	50	.5: 1
MP-AOM-106								1.
4-100M-0.7m m	1064	100	0.7	85	250	1.8	50	2: 1
MP-AOM-106								<1
4-120M-0.7m m	1064	120	0.7	85	250	1.8	50	.3: 1
MP-AOM-106								<1
4-150M-0.5m	1064	150	0.5	85	250	2.5	50	.3:

m								1
MP-AOM-106								<1
4-200M-0.3m	1064	200	0.3	70	250	2.5	50	.3:
m								1
MP-AOM-155								<1
0-40M-0.7m	1550	40	0.7	80	250	2.5	50	.3:
m								1
MP-AOM-155								<1
0-60M-0.5m	1550	60	0.5	80	250	2.5	50	.3:
m								1
MP-AOM-155								<1
0-80M-0.7m	1550	80	0.7	80	250	2.5	50	.3:
m								1
MP-AOM-155								<1
0-150M-0.5m	1550	150	0.5	65	250	2.5	50	.5:
m								1
MP-AOM-155								<1
0-200M-0.3m	1550	200	0.3	55	250	3	50	.5:
m								1

We can offer customized services to customers: Wavelength range from 500-2000nm with any band selectable. Frequency range from 40-300MHz with



any frequency selectable, and frequency accuracy can be customized. Aperture size from 0.1-4mm can be customized. The enclosure size can be tailored to fit the customer's system requirements, including the material of the enclosure. We can optimize the device according to the customer's specific performance requirements