

# Acousto-Optic Modulator Driver



DATASHEET

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This series of AOM driver is designed for use with AOM modulator operated in an analog input control mode. This product generates heat and shall be mounted on a metal structure using fixing screws. A certain amount of space should be free around and above the product. The product is powered by + 24V DC through a per-centric capacitor.

Do not power up when it is open or shorted to avoid permanent damage. The product should be well grounded. Otherwise, the performance can be affected. The adjustment of RF output power is achieved by changing the resistance of a multi-turner: turn clockwise to increase the output power. The product is sensitive to ESD.

## Features

- Low Loss
- Low Cost
- Stable

## Specifications

Parameter	Min	Typical	Max	Unit
Frequency	80 ± 0.1%	100 ± 0.1%	200 ± 0.1%	MHz
Driving Power <sup>1</sup>	0.1		3	W
Repetition Rate	1		15	MHz
Supply Voltage		+24		V
Supply Current		280		mA
Return Loss	40			dB
Voltage Standing Wave Ratio		1.2:1		
Polarization Extinction (PM Only)	18	20	25	dB
Modulation Mode		Analog		
Control Signal Voltage	0		5	V
Output Impedance		50		Ω
AOM Interface		SMA		
Control Interface		SMA		
Operating Temperature	-5		60	°C
Storage Temperature	-45		85	°C

### Note:

1. This is for generating internal grating. The power level is preset, but can be adjusted with a screw driver through the side hole

## Applications

- Fiber Lasers
- Pulse Picker
- Sensor

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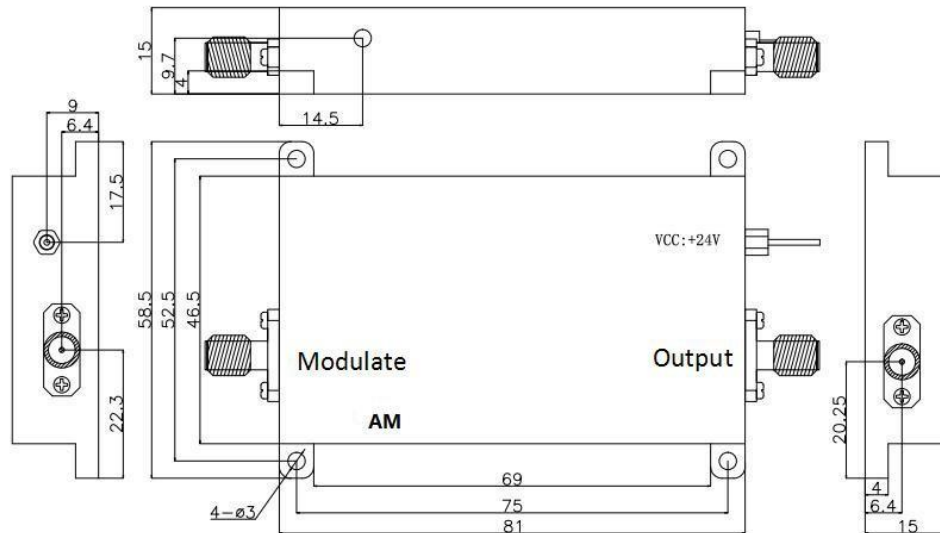
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### Mechanical Dimensions (mm)



\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

### Electrical/Computer Connection

- The product heat dissipation method is conduction heat dissipation. The product should be installed on the metal structure with fixing screws, and the installation surface should be flat and have a certain size and thickness. A certain amount of space should be reserved around and above the product to dissipate heat.
- The product uses +24V DC power supply, and the power connector uses a through-core capacitor; during installation, connect the core of the through-core capacitor to the positive pole of the power supply, and connect the ground plate of the through-core capacitor to the negative pole of the power supply through a wire.
- The characteristic impedance of the product signal output port is 50ohm.
- Do not turn on the power when the signal output interface is open or short-circuited, which may damage the product.
- Ensure that the product is well grounded, otherwise it will have an impact on product performance.
- The output power adjustment is realized by changing the resistance value of the slotted multi-turn potentiometer. Turn the potentiometer clockwise to adjust the terminal, the output power will increase, and the counterclockwise rotation will decrease. The adjustment range of the output power is greater than 15dB.
- The product is sensitive to static electricity. Pay attention to static electricity protection during use.
- The +24V connector is a legacy 0.9mm diameter pin, the ground ear pin is part the this pin.

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### Ordering Information

Prefix	Type	Frequency			Package		
AOMD-	Analog = 11 Digital = 22	80MHz = 8 100MHz = 1 200MHz = 2	Module = 1 Box = 2 * Special = 0				

\* The fan is included in the box package.

We provide a laboratory ready to use box having 110-240ACV electricity input in the back, and SMA control signal input, and FC/APC fiber input and output on the front.