

# 780nm Full Band Free Space Acousto-Optic Modulator 110MHz



## ● Product Description

AOMs allow the user to vary the output light amplitude, duration, and period/frequency. Insertion loss can be as low as 2 dB, extinction ratio can be as high as 50 dB, rise time can be as low as 5 nanoseconds, and periodicity can be as high as hundreds of MHA. Applications include switches, pulse picking, fast attenuators, etc. Wavelengths range from near UV to near IR.

## ● Part Number

A-780-110-L-T-D1-T-A-K

## ● Product features

t0-level and 1-level optical fiber output、 High extinction ratio、 Different devices can be made according to different wavelengths and frequencies of customers

## ● Application area

BODTR、 DVS、 Optical switch

## ● Main Parameters:

| Part Number              | Wavelength (nm) | Frequency (Mhz) | Clear Aperture (mm) | Diffraction Efficiency (%) | Optical Power Density (W/m <sup>2</sup> ) | Driver Power (W) | Input Resistance (Ω) | VSWR   |
|--------------------------|-----------------|-----------------|---------------------|----------------------------|-------------------------------------------|------------------|----------------------|--------|
| A-532-80-L-T-D1-T-A-K    | 532             | 80              | 1                   | 85                         | 250                                       | 0.8              | 50                   | <1.3:1 |
| A-532-80-L-T-D2-T-A-K    | 532             | 80              | 2                   | 85                         | 250                                       | 1.5              | 50                   | <1.3:1 |
| A-532-100-L-T-D1-T-A-K   | 532             | 100             | 1                   | 85                         | 250                                       | 0.8              | 50                   | <1.3:1 |
| A-532-200-L-T-D0.3-T-A-K | 532             | 200             | 0.3                 | 70                         | 250                                       | 2                | 50                   | <1.5:1 |
| A-532-200-L-T-D4-T-A-K   | 532             | 200             | 4                   | 80                         | 250                                       | 4                | 50                   | <1.5:1 |
| A-632-80-L-T-D1-T-A-K    | 632             | 80              | 1                   | 85                         | 250                                       | 0.8              | 50                   | <1.3:1 |
| A-632-100-L-T-D1-T-A-K   | 632             | 100             | 1                   | 85                         | 250                                       | 0.8              | 50                   | <1.3:1 |

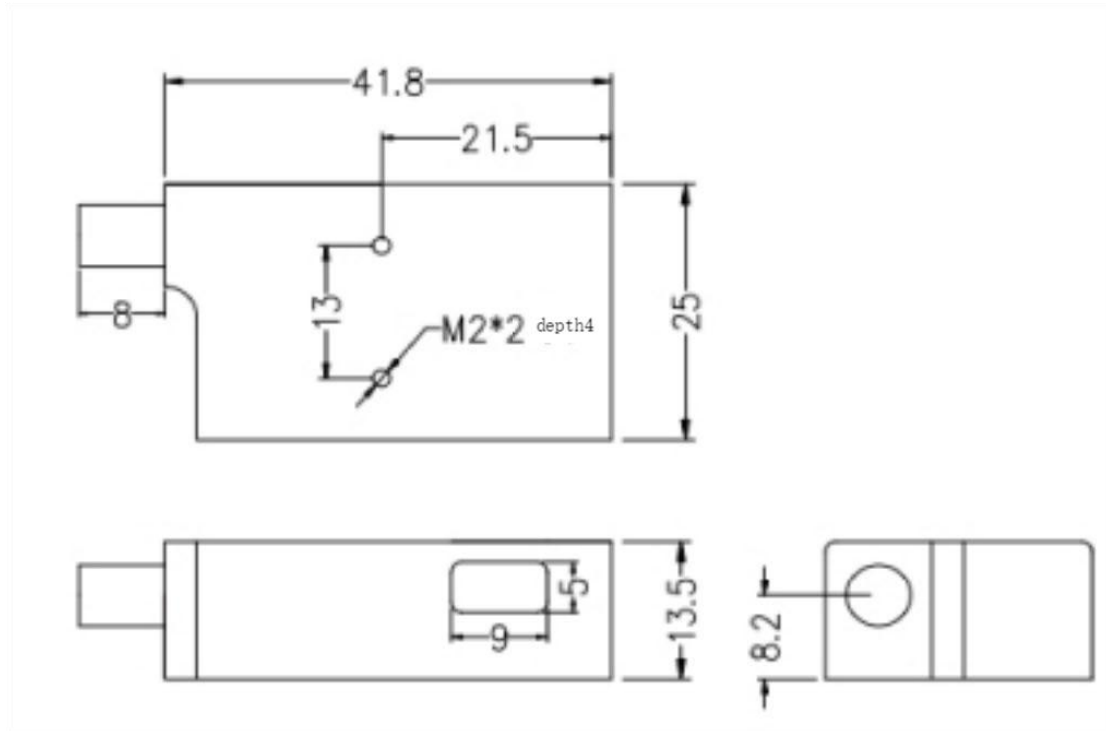
|                               |      |     |     |    |     |     |    |              |
|-------------------------------|------|-----|-----|----|-----|-----|----|--------------|
| A-632-200-L-T-D0.3-T<br>-A-K  | 632  | 200 | 0.3 | 70 | 250 | 2.5 | 50 | <1.5:<br>: 1 |
| A-632-200-L-T-D1-T-<br>A-K    | 632  | 200 | 1   | 85 | 250 | 1.5 | 50 | <1.5:<br>: 1 |
| A-780-110-L-T-D1-T-<br>A-K    | 780  | 110 | 1   | 85 | 250 | 1.3 | 50 | <1.3:<br>1   |
| A-780-150-L-T-D1-T-<br>A-K    | 780  | 150 | 1   | 75 | 250 | 2   | 50 | <1.3:<br>1   |
| A-780-150-L-T-D2-T-<br>A-K    | 780  | 150 | 2   | 75 | 250 | 2.5 | 50 | <1.5:<br>: 1 |
| A-780-200-L-T-D0.3-T<br>-A-K  | 780  | 200 | 0.3 | 70 | 250 | 3   | 50 | <1.5:<br>: 1 |
| A-780-200-L-T-D2-T-<br>A-K    | 780  | 200 | 2   | 70 | 250 | 3.5 | 50 | <1.5:<br>: 1 |
| A-850-110-L-T-D0.7-T<br>-A-K  | 850  | 110 | 0.7 | 80 | 250 | 1   | 50 | 1.2:1        |
| A-850-200-L-T-D0.3-T<br>-A-K  | 850  | 200 | 0.3 | 80 | 250 | 3   | 50 | <1.5:<br>: 1 |
| A-1064-100-L-T-D0.7-<br>T-A-K | 1064 | 100 | 0.7 | 85 | 250 | 1.8 | 50 | 1.2:1        |

|                           |      |     |     |    |     |     |    |        |
|---------------------------|------|-----|-----|----|-----|-----|----|--------|
| A-1064-120-L-T-D0.7-T-A-K | 1064 | 120 | 0.7 | 85 | 250 | 1.8 | 50 | <1.3:1 |
| A-1064-150-L-T-D0.5-T-A-K | 1064 | 150 | 0.5 | 85 | 250 | 2.5 | 50 | <1.3:1 |
| A-1064-200-L-T-D0.3-T-A-K | 1064 | 200 | 0.3 | 70 | 250 | 2.5 | 50 | <1.3:1 |
| A-1550-40-L-T-D0.7-T-A-K  | 1550 | 40  | 0.7 | 80 | 250 | 2.5 | 50 | <1.3:1 |
| A-1550-60-L-T-D0.5-T-A-K  | 1550 | 60  | 0.5 | 80 | 250 | 2.5 | 50 | <1.3:1 |
| A-1550-80-L-T-D0.7-T-A-K  | 1550 | 80  | 0.7 | 80 | 250 | 2.5 | 50 | <1.3:1 |
| A-1550-150-L-T-D0.5-T-A-K | 1550 | 150 | 0.5 | 65 | 250 | 2.5 | 50 | <1.5:1 |
| A-1550-200-L-T-D0.3-T-A-K | 1550 | 200 | 0.3 | 55 | 250 | 3   | 50 | <1.5:1 |

We can provide customized services to customers: wavelength 500-2000nm can be selected in any band. Frequency 40-300MhA can be selected in any frequency, and frequency accuracy can be customized. The aperture 0.1-4mm can be customized, and the shell size can be customized according to the customer's system requirements. The appropriate shell size including shell material can be customized. We can meet the customer's requirements for a certain indicator to optimize the device.

## ● Dimensions

### AOM Modulator



### RF Driver

