idealphotonics

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Fiber Coupled Acousto-Optic Modulator

Fiber Coupled AOM is designed for pulsed fiber laser/amplifier system applications. The AOM is installed in fiber laser cavity, laser pulses can be obtained by modulating the AOM with TTL signal.

Feathure

Low insertion loss
Compact package
Stable and reliable performance
Customized configurations available

Application

Fiber amplifier
Fiber laser

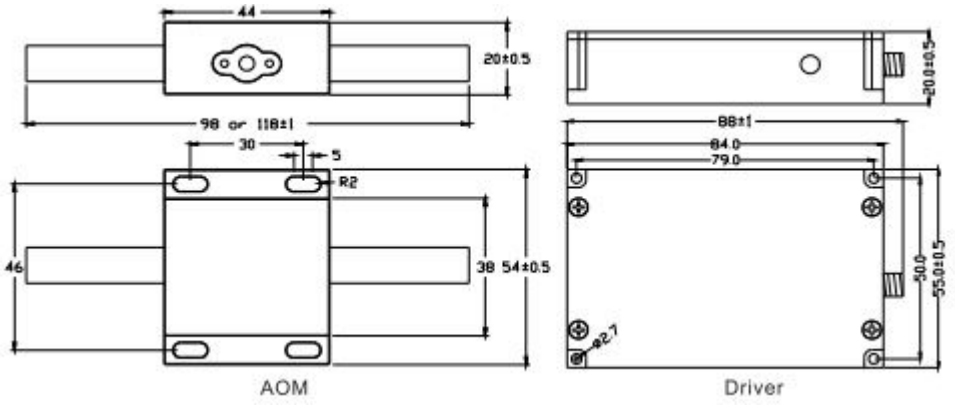
Specification

Parameter	Unit	NON-PM fiber AOM	PM fiber AOM
Center wavelength, lc	nm	1064	
Bandwidth, BW	nm	±10	
Typical insertion loss@23℃, lc	dB	1.8	
Max. insertion loss	dB	2.5	
ON/OFF extinction ratio	dB	≥ 45	
Polarization extinction ratio	dB	-	≥20
Fiber type	-	10/125 or customization	PM10/125 or customization
Return loss	dB	≥45	
Input power handling	W	≤3	
Supersonic wave frequency	MHz	80/100	
RF power	W	≤2.5	

Input impedance	Ω	50
Driver voltage	V	24
TTL signal	-	0/5V(bias:2.5V), 10KHz~100KHz,1us~5 us
Rise-time/Fall-time	ns	≤50
Dimensions（L*W*H）	mm	AOM:118*54*20;Driver:84*55*20
Operating temperature	℃	0 ~ +50
Storage temperature	℃	-20 ~ +70

*Other specification can be made on customer request
*IL is 0.5dB higher, RL is 5dB lower and PER is 2dB lower for each connector added. The default connector key is aligned to slow axis.

Package Dimensions



Ordering information