

# Amplifier Module at 1.55 Micron Wavelength

## AP-AMP-MOD-1550

### Features:

- High Energy, up to 1.5 mJ pulse energy
- Hundreds of kW peak power
- High power, up to 20 W average power
- $M^2 < 1.3$
- Conductive Cooling (Not water cooling)
- Patented protected US Patent 9,640,936 & 9,581,760



### Applications:

- ns, ps, fs short pulse amplification
- Single frequency pulse amplification

### Optical Characteristics:

Parameter	Specification
Operating wavelength	1530-1575 nm
Output power	Up to 20 W
Output pulse energy	Up to 1.5 mJ
Gain	10-15 dB (depending on maximum output power and wavelength)
Beam quality	$M^2 < 1.3$
Polarization	Polarization maintaining or random
Operation mode	Pulsed or CW
Input signal fiber	PM1550
Input pump fiber	MM 105/125, NA 0.22
Output	Free-space output
Cooling	Conductive Cooling (Not water cooling)

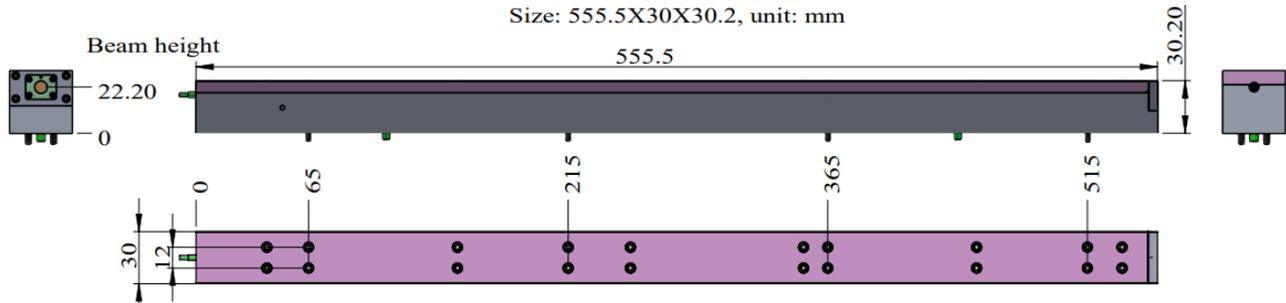
(For special requirement, please contact AdValue Photonics for options.)

*Specifications subject to change without notice*

## General Characteristics:

Parameter	Specification
Operating temperature	10 to 35 °C
Storage temperature	-10 to +70 °C
Cooling	To be mounted on 20 °C water-cooled plate
Dimensions	555.5(L) x 30(W) x 30.2(H) mm

## Mechanical Outline:



## Model/Part No. Information:

Part Number:	AP-AMP-MOD	-	xxxx	-	xx	-	NOTE
	Model: AP-AMP-MOD-1550 (Amplifier Module at 1.55 μm)		Standard Wavelength: 1545 = 1545 nm Custom Wavelength: xxxx = xxxx nm		Output Power: 20 = 20 W 05= 5 W xx = xx W		Specify test signal pulse width and rep rate

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