

Amplifier Module at 1 Micron Wavelength

AP-AMP-MOD-1000

Features:

- $M^2 < 1.2$
- >23 dB gain
- >1.2 MW peak power
- >120 W average power
- Compact size
- 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	1030 nm, 1064 nm or other wavelengths
Output power	120 W or higher
Output pulse energy	350 μ J at 5 ns, 100 μ J at 0.4 ns, 18 μ J at 15 ps
Input power	0.5% output power, 23 dB gain
Optical efficiency	>50%
Beam quality	$M^2 < 1.2$
PER	15 dB
Operation mode	Pulsed or CW
Input signal fiber	Options: PM 8.5/125 NA 0.085 <u>OR</u> PM 14/125, NA0.07
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.)

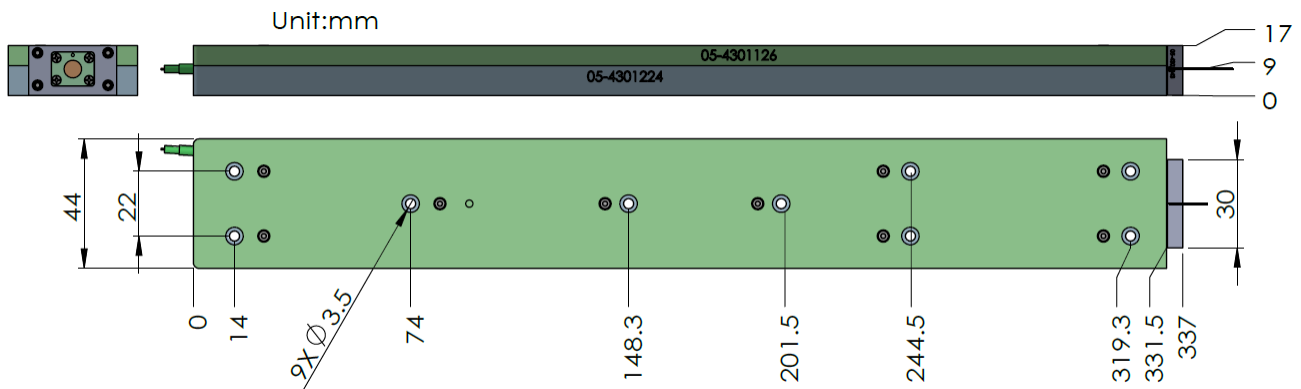
Specifications subject to change without notice

General Characteristics:

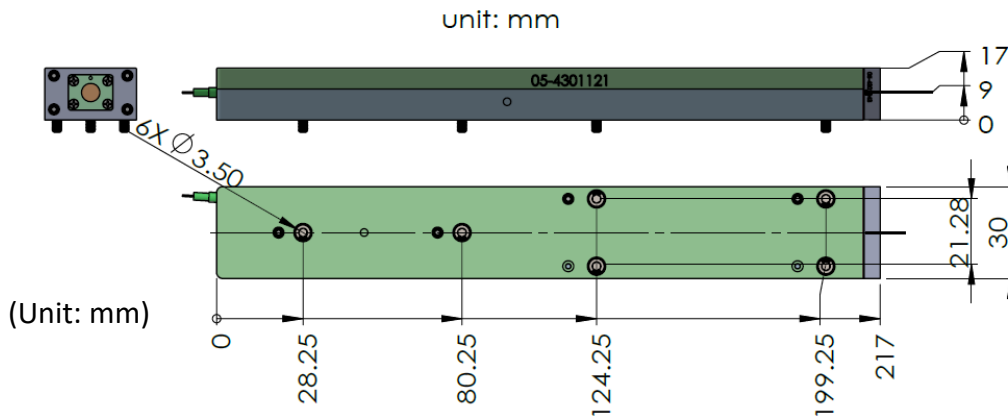
Parameter	Specification
Operating temperature	20 to 35 °C
Storage temperature	-10 to +70 °C
Cooling	To be mounted on 25 °C water-cooled plate
Packaging (gain fiber module)	Semi-hermetic, dust sealed, dimensions 337(L) x 44(W) x 17(H) mm <u>OR</u> 217(L) x 30(W) x 17(H) mm

Mechanical Outline:

Version G2L



Version G2



Model/Part No. Information:

Part Number:	AP-AMP-MOD	-	xxxx	-	xxx	-	S	-	G2L
	Model: AP-AMP-MOD-1000 (Amplifier Module at 1 μm)		Standard Wavelength: 1030 = 1030 nm Custom Wavelength: xxxx = xxxx nm		Output Power: 100 = 100 W 10 = 10 W xx = xx W		S = Standard (5 ns pulses at 300 kHz, 23 dB gain at 1030 nm) Other: Specify with AdValue Photonics		Package: G2L = Standard G2 = Available as appropriate

Specifications subject to change without notice