

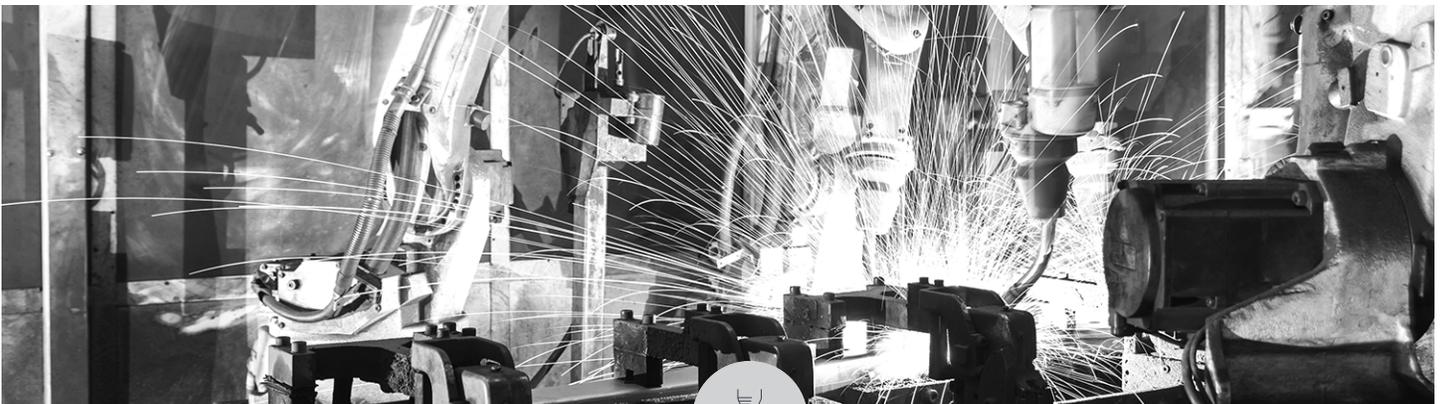
## Fiber Laser Building Blocks

# VLMA ER AMPLIFIER

### Applications:

Free space communications, LIDAR, Micro-machining and Femtosecond chirped pulse amplification

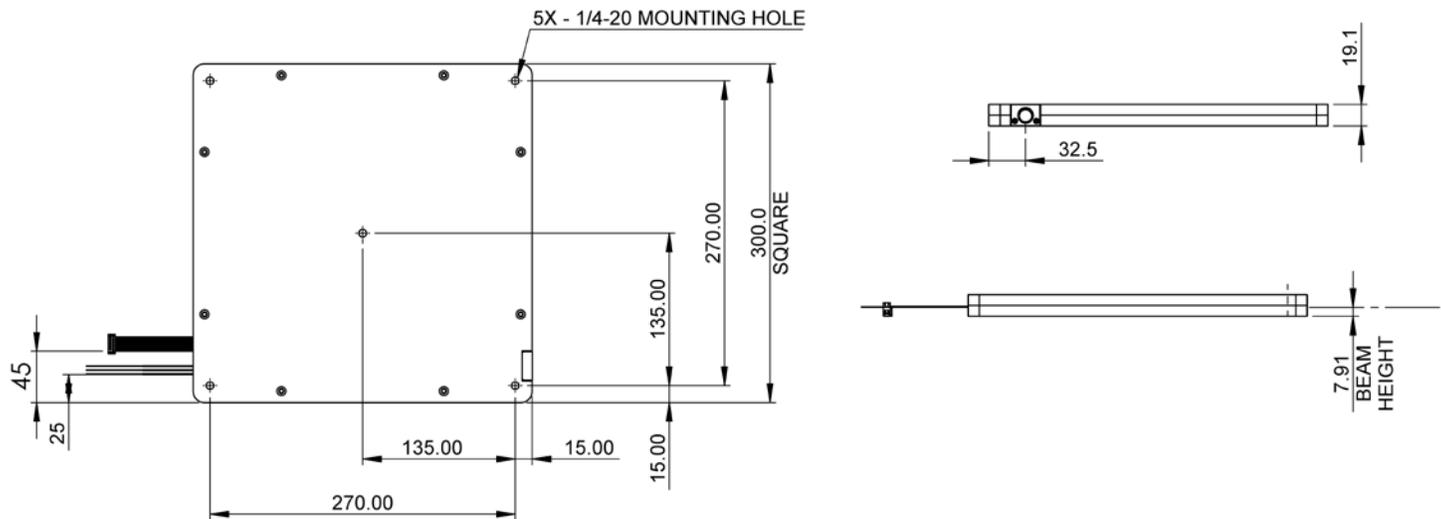
- All-fiber design
- 50  $\mu\text{m}$  core diameter
- Diffraction limited output
- PM and non-PM versions available
- >100W output power
- 1 ns pulses amplified to 100  $\mu\text{J}$ , 100kW peak power



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Specifications	PM VLMA Er Amplifier	Non-PM VLMA Er Amplifier
<b>Fiber Parameters</b>		
Core diameter	50 $\mu\text{m}$	
$A_{\text{eff}}$	$\sim 1100 \mu\text{m}^2$	
Er abs	$\sim 50 \text{ dB/m}$	
Seed laser input pigtail	PM-SMF, length 2 m; 125 mm OD; 250 mm OD buffer; Dual-coat acrylate	SMF, length 2 m; 125 mm OD; 250 mm OD buffer; Dual-coat acrylate
Pump laser input pigtail	SMF; length 2 m; 125 mm OD; 250 mm OD buffer; Dual-coat acrylate	
<b>Amplifier Performance</b>		
Polarization extinction ratio	> 15 dB at max. power	N/A
Operating wavelength	1545 to 1575 nm	
Output average power	> 20 W using 50 W, 1480 nm Raman fiber laser pump >40 W using 100 W, 1480 nm Raman fiber laser pump	
Peak power	up to 100 kW in a 1 ns pulse	
Beam quality: $M^2$	Typical: < 1.2 < 1.3 at maximum power	
Output beam	Free space, diverging beam	
Pump laser required	1480 nm Raman fiber laser	
Cooling	Air or water cooled cold plate	
Operating temperature	Room temperature	
Order by Part Number	7000438	7000499



For additional information please contact your sales representative.  
 You can also visit our website at [www.ofsoptics.com](http://www.ofsoptics.com) or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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