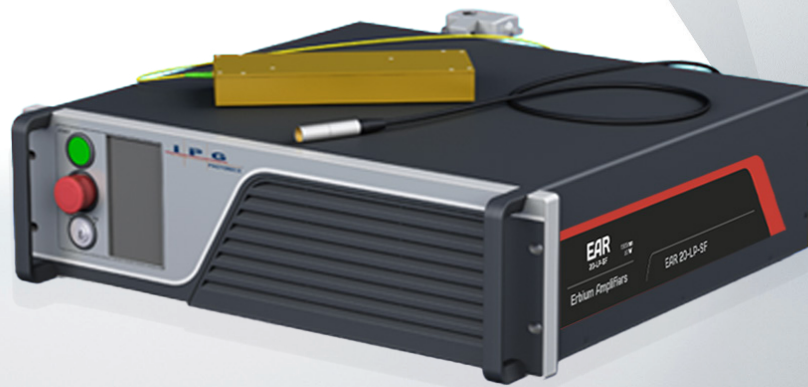


EAR-LP-SF

Single Frequency Erbium Amplifiers



FEATURES

- ▶ Output Power 1-30 W
- ▶ Single Frequency
- ▶ Single-mode Beam Quality
- ▶ Compact Rugged Design
- ▶ Cost Effective Solutions



APPLICATIONS

- ▶ Atom Trapping / Tweezers
- ▶ Remote Sensing
- ▶ Holography & Interferometry
- ▶ Scientific Applications
- ▶ Telecom Applications
- ▶ Medical Applications

The EAR-LP-SF Series is a line of linearly polarized (LP) single frequency (SF) single-mode erbium fiber amplifiers covering the spectral range from 1535 to 1605 nm and output power range from 1 to 30 W. The EAR-LP-SF Series erbium amplifiers are used for quantum computing, coherent beam combining, detection systems, sensing and other applications. The EAR-LP-SF Series amplifiers do not need water cooling or replacement parts and require only a 110-240 VAC power source to provide amplification for your low power signal.

EAR-LP-SF

Single Frequency Erbium Amplifiers

Optical Characteristics*	1-LP-SF	5-LP-SF	10-LP-SF	20-LP-SF	30-LP-SF
C-Band Operating Wavelength Range, nm	1535-1565		1540-1565	1545-1565	
L-Band Operating Wavelength Range, nm	1570-1605			N/A	
Mode of Operation	CW				
Input Power Range*, mW	1-5				
Output Power (Pin = 1 mW), W	1	5	10	20	30
Adjustable Output Power Range, %	1 - 100			3 - 100	
Long-Term Power Stability**, %	0.5 typical, 1.5 maximum				
C-Band Polarization	Linear, >200:1			Linear, >150:1	
L-Band Polarization	Linear, >200:1			N/A	

* Custom input power range is available upon request.

** Over 8 hours

General Characteristics*	1-LP-SF	5-LP-SF	10-LP-SF	20-LP-SF	30-LP-SF
Dimensions* (W × D × H), mm	448 × 403 × 132				
Weight, kg	21 typical			30 typical	
Cooling	Air				
Supply Voltage, VAC	single-phase 50-60 Hz, 110-240				
Power Consumption (20°C), W	<150	<190	<250	<350	<420

* EAM OEM module packages are available upon request up to 10 W power.



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