YAR-100-1064-LP-SF

Single Frequency Ytterbium Amplifier

NEW PRODUCT

Applications

- Holography and Interferometry
- Atom Trapping and Optical Tweezers
- Optical Metrology
- Biomedical Instrument Integration
- High Resolution CW Spectroscopy
- CW Mid-IR OPO pumping

Features

- Selectable Wavelength
- Single Frequency
- Up to 100 W Saturated Output Power
- Single-mode Fiber Delivery
- Extremely Reliable
- Air-cooled
- Automatic Power and Current Controls
- Operation in Adverse Ambient Conditions
- Advanced Protection Circuits Against Input Signal Interruption and High Back Reflection

The **YAR-LP-SF Series** is a line of linearly polarized (LP) single frequency (SF) single-mode fiber amplifiers covering the spectral range from 1030-1070 nm. Typical bandwidth of the amplifier is 10-20 nm (depending on output power) which allows tunability of the input signal for exact wavelength matching. The series includes 1-100 W versions. These user friendly and highly efficient 19” rack mounted devices are designed for maintenance-free applications over a temperature range of 10°C to 35°C. The YAR-LP-SF Series is optimized for linearly polarized single frequency input signals and can be used for a variety of applications including coherent beam combining, detection systems, sensing and other applications.

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Single Frequency Ytterbium Amplifier

Optical Characteristics

Central Wavelength Range, nm	1030-1070
Mode of Operation	CW/Pump Current Modulation with External Signal
Input Power Range*, mW	1-5
Saturated Output Power** (Pin = 1 mW), W	100
Power Tunability, %	1-100
Power Stability***, %	3
Long-Term Output Power Instability, %	<1.5 at Constant Temperature <3 for +/-2°C Temperature Fluctuations
Relative Residual Pump at Input/Output Ports, dB	-60
Polarization	Linear, >100:1

* Other input power ranges are available.
** Other output powers are available.
*** Over 8 hours

General Characteristics

Cabinet Dimensions (W × D × H), mm	448 × 504 × 177
Weight, kg	<30
Cooling	Air
Supply Voltage, VAC 50/60 Hz	100-240
Power Consumption (20°C), W	<500

* YAM OEM module packages are available upon request.

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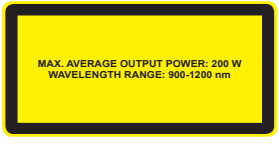

The Power to Transform®