Optical Fiber Systems, Inc.
(603) 291-0345 info@opticalfibersystems.com

RML-1070-005

Our RML-1070-005 is a compact rack-mount laser system delivering up to 5 W of optical power at a wavelength of 1070 nm out of a small optical fiber. The system includes a diode-pumped fiber laser, wavelength selection mechanism, driver and control electronics. The laser energy is delivered out of a small single mode optical fiber terminated with a collimator lens that is permanently attached to the unit and comes out of the front panel.

Laser activation is controlled with the ON and OFF switch on the front panel and the power level is adjusted by the potentiometer on the front panel. The turn-on and turn-off response time of the driver circuit is approximately 2 msec, allowing modulation of the laser output at a maximum frequency of approximately 200 Hz.

Specifications:

Wavelength:	1070 nm	**Linewidth:**	10 nm TYP	**Power:**	5 W MAX
Operating Mode:	Continuous	**Modulation:**	200 Hz MAX (TTL 5V Signal)		
Power stability:	+/-3% (<30sec), +/-5%(>2 min, up to 6 hrs)			**Polarization:**	Random
Laser delivery:	Permanently attached Fiberoptic cable.			**Cable Length:**	2 m
Fiber size:	Single-Mode	**Termination:**	Collimator	**Beam diameter**	3.2 mm (1/e2)
Width:	17.03"	**Height:**	3.41"	**Depth:**	8.00"
Electrical Supply:	100-240 VAC, 50-60 Hz (~2A typical)			**Weight:**	4 lbs
Min Operating Temperature:	69F / 20.5C		**Min Storage Temperature:**		14F / -10C
Max Operating Temperature:	95F / 35C		**Max Storage Temperature:**		140F / 60C

Options:

The unit can be provided with other types of terminations such as FC connector or bare cleaved fiber at no additional cost. To specify the options, simply add at the end of our model number the following letter for the desired termination type: F for FC connector, C for cleaved fiber. The unit can also be provided with polarized beam (add the letter P).
Contact our factory for additional options such as USB interface or fast (>10KHz) modulation capability.
(Example: RML-1070-005-F would be a fiber laser system with no collimator and a FC connector mounted at the end of the fiber.)

Disclaimer:

This laser product is designated solely as an OEM component to be incorporated into another end product. Therefore, it does not comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser system.

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