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Find the *Greenlee / Tempo / RIFOCS 751R-1300* at our website: *Click HERE*

700 Series

751R-1300
1300nm LED Source Module

Features

- -17dBm output power (at 85%)
- Stable output power: ±0.02dB over 12 hours
- Output power is adjustable from zero to 100%
- Internal modulation up to 1kHz
- Sources can be operated independently via the GPIB/IEEE-488 compliant RIFOCS 700R system controller
- Space efficient—up to 11 LED source modules and one system controller can be installed in a 19-inch rack
- Precision Universal Connector Interface (UCI) adapts to all industry standard fiber optic connectors



Key Specifications

Wavelength (mean)[1]:	
Nominal	1310nm
Range	1270nm to 1345nm
Spectral width (FWHM)[2]	< 150nm
Power stability, 12 hours	±0.02dB
Typical output power[3] into 100/140µm GI MM fiber	-17dBm at 85%
Internal launch fiber	125/140µm SI

[1] The mean wavelength is the geometrical average of all emitted power from the LED.
[2] The FWHM value is the calculated width of the geometrical average.
[3] Measured per FOTP-95.

Applications

Fiber Optic Component Testing

The 751R-1300 LED source module provides the precision required to perform a variety tests and measurements in the 1300nm wavelength region commonly used in multimode fiber optic systems, such as Local Area Networks (LAN), Fiber Distributed Data Interfaces (FDDI), and other short-haul applications.

The output power of the 751R-1300 LED source can be quickly adjusted from zero to 100% using the front panel controls of the 700R controller module, or via the GPIB/IEEE-488 interface incorporated in the latter unit. All RIFOCS LED sources, and other 700 Series modular instruments, may be operated independently on the same I²C backplane. The user can toggle between modules and change measurement parameters without affecting the operation of other instruments.

The light output of the 751R-1300 LED source can be toggled between continuous wave (CW) and internal modulation mode either manually or over the GPIB/IEEE-488 interface. The internal modulation frequency can also be adjusted manually or over the GPIB interface using simple commands.

The 751R-1300 LED source incorporates a Universal Connector Interface (UCI), which provides excellent return loss performance and repeatability. UCI adapters are available for all industry standard fiber optic connectors.

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RIFOCS Corporation
Fiber Optic Instruments & Components

1340 Flynn Rd. Camarillo, CA 93012
Phone: (805) 389-9800 Fax: (805) 389-9808
http://www.rifocs.com

700 Series

751R-1300
1300nm LED Source Module

Ordering Information

One Universal Connector Interface (UCI) adapter is included with the 751R-1300 LED source. Please specify the desired connector adapter type when ordering using the UCI Adapter Table, below. Additional UCI adapters may also be ordered separately.

Part No.	Description
751R-1300	LED source module

UCI Adapter Table

Adapter Code	Connector Type
AD-234	DIN 47256
AE2-10	Diamond E-2000
APC-10	NTT/FC-PC
AMS-00	Diamond HMS-0 (3.5mm)
AMT-10	Diamond HMS-10A (SMA-2.5)
ASM-90	SMA-905/906
AHP-10	HMS-10/HP (2.5mm)
AML-38	MIL-T-29504/4 and /5
ASC-10	NTT/SC-PC
ATS-16	AT&T/ST-PC

Specifications

Subject to change without notice

Wavelength (mean)[1]:	
Nominal	1310nm
Range	1270nm to 1345nm
Spectral width (FWHM)[2]	< 150nm
Power stability, 12 hrs.	±0.02dB after 15-minute warm-up, from +20°C to +25°C at rated power levels
Internal launch fiber	125/140µm SI
Power output into 100/140 GI fiber[3]:	
Minimum	-17dBm
Typical	-17dBm at 85%
Internal modulation	Continuous wave to 1kHz
Optical connector interface	Universal Connector Interface (UCI)
Environmental:	
Operating temp.	0°C to +50°C
Storage temp.	-15°C to +70°C
Humidity	0 to 95% RH, non-condensing
Weight	310g (10.85 oz.)
Dimensions	12.9 x 3 x 26.2 cm (5 x 1.17 x 10.22 in), one slot in RIFOCS 700 Series rack

[1] The mean wavelength is the geometrical average of all emitted power from the LED.
[2] The FWHM value is the calculated width of the geometrical average.
[3] Measured per FOTP-95.

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