700 Se To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. 761R-DFB Laser Source Module

Features

- Calibrated DFB laser wavelength tuning
- ±0.80nm tuning range
- 50pm absolute accuracy
- Less than 0.01nm deviation over 12 hours
- Precise tuning resolution: Between 10 and 20pm over entire range
- Stable output power: ±0.01dB over one hour, ±0.03dB over 12 hours
- 0dBm ±0.5dB output power (typical)
- +10dBm versions with standard or polarization-maintaining launch fibers available
- Output power is adjustable from zero to 100%
- Internal modulation up to 1kHz
- Modules can be built to customer specifications and for specialized applications
- Sources can be operated independently via the GPIB/IEEE-488 compliant RIFOCS 700R system controller
- Space efficient-up to 11 laser source modules and one system controller can be installed in a 19-inch rack



¹ After 20 minute warm-up, from +20°C to +25°C at rated power output. 2 +10dBm version optional.

Applications

DWDM Component Testing

RIFOCS 761R-DFB laser source modules offer the precision required for multi-wavelength fiber optic tests and measurements, and the flexibility to keep pace with rapidly evolving DWDM technologies.

761R-DFB

The 761R-DFB laser source modules incorporate a sophisticated temperature control system which enables them to provide calibrated output with a ±0.80nm tuning range and ±50pm (picometer) absolute wavelength accuracy. This temperature control system also ensures wavelength stability of 0.01nm, and output power stability of ±0.03dB, over 12 hours of operation for accurate long-term tests.

The output power of the 761R-DFB laser source modules can be guickly adjusted from zero to 100% using the RIFOCS 700R controller. With resolution between 10 and 20pm over the entire tuning range, the output wavelength of the 761R-DFB laser source modules can be adjusted in as little as one second.

The 761R-DFB laser source modules can also be operated remotely, or automated using RIFOCS *fiber*WORKS™ application software, via a GPIB/IEEE-488 interface incorporated in the 700R controller.

The 761R-DFB laser source modules are available in a comprehensive range of wavelengths and ITU channels to handle demanding DWDM and multiwavelength measurement tasks. RIFOCS can also build 761R-DFB laser source modules to a customer's wavelength and output power specifications, and for other specialized applications.



NIST, ISO, IEC, ANSI, NCSL, MIL-STD by www.raeservices.com

RIFOCS Corporation Fiber Optic Instruments & Components

To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc.

Click here>> www.raeservices.com/services/quote.htm

Ordering Information

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Standard center wavelengths and product codes for the 761R-DFB laser source modules are listed below. Please specify the desired center wavelength when ordering using the corresponding code. Customer-specified wavelengths are also available. Please contact RIFOCS Corp. for more information.

One Universal Connector Interface, 8° angle-polished connector (UCI-APC) adapter is included with the 761R-DFB laser source. Please specify the desired connector adapter type when ordering using the UCI-APC Adapter Table, below. Additional UCI-APC adapters may also be ordered separately.

Part No.	Description	
761R-DFB/wavelength cod	e Laser source module	
UCI-APC Adapter Table		
Part No.	Description	

AD-108	DIN-APC
AE2-10	E-2000
APC-108	FC-APC, wide key
APC-109	FC-APC, narrow key
ASC-108	SC-APC
ATS-108	ST-APC

DFB Laser Source Module Specifications Subject to change without notice Center wavelength Customer specified—see table below Spectral width (max.) < 50MHz at -3dB Side mode suppression > 33dB Stability¹, 1 hr. (typical) ±0.01d 12 hrs. ± 0.03 Power output into 9/125 SM fiber²: Minimum **Typical** Wavelength tuning range Wavelength stability, 12 hrs. **Functions** lulated output mode, continuous wave output mode, selectable frequency, optional external modulation up to 10kHz, GPIB/IEEE-488 control le Internal modulation Continuous wave to 1kHz Optical connector inter Universal Connector Interface, 8° angle-polished connector (UCI-APC) **Dimensions** 12.9 x 3 x 26.2 cm (5 x 1.17 x 10.22 in), one slot in RIFOCS 700 Series rack +25°C at rated power output arization-maintaining launch fibers available. Center Wavelengths and Codes Se de de la companya Wavelength Wavelength Wavelength Wavelength Code Code Code 178 126 1538.19nm 152 1548.51nm 1558.98nm ₽0Ø 102 528.77nm 128 1538.98nm 154 1549.32nm 180 1559.79nm 529.55nm 104< 130 1539.77nm 156 1550.12nm 182 1560.61nm 1530.33nm 132 1540.56nm 158 1550.92nm 184 1561.42nm 106 108 1531.12nm 134 1541.35nm 160 1551.72nm 186 1562.23nm 110 1531.90nm 136 1542.14nm 162 1552.52nm 188 1563.05nm 112 1532.68nm 138 1542.94nm 164 1553.33nm 1554.12nm 114 1533.47nm 140 1543.73nm 166 116 142 1544.53nm 1554.94nm 1534.25nm 168 118 1535.04nm 144 1545.32nm 170 1555.75nm 120 1535.82nm 146 1546.12nm 172 1556.55nm 122 1536.61nm 148 1546.92nm 174 1557.36nm 124 1537.40nm 150 1547.72nm 176 1558.17nm



ISO 9001

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761R-DFB