700 Se To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. Click here>> www.raeservices.com/services/quote.htm.el 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
- OdBm ±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



Key Specifications

enter wavelengths

nge ±0.0

See wavelength table on back ±0.050nm

Spectral width, max.

< 50MHz at -3dB

Power stability1:

Thour (typical) ±0.01dB **12 hours** ±0.03dB

Output power²:

 Minimum
 -1dBm

 Typical
 0dBm ±0.5dB

Applications

DWDM Component Testing

RIFOCS 762R-DFB dual 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.

The 762R-DFB dual 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 762R-DFB dual laser source modules can be quickly 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 762R-DFB dual laser source modules can be adjusted in as little as one second.

The 762R-DFB dual 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 762R-DFB dual 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 762R-DFB dual laser source modules to a customer's wavelength and output power specifications, and for other specialized applications.

¹ After 20 minute warm-up, from +20°C to +25°C at rated power output.

^{2 +10}dBm version optional.

Ordering Information

Standard center wavelengths and product codes for the 762R-DFB dual laser source modules are listed below. Please specify the desired center wavelengths when ordering using the corresponding code. Customer-specified wavelengths are also available. Please contact RIFOCS Corp. for more information.

Two Universal Connector Interface, 8° angle-polished connector (UCI-APC) adapters are included with the 762R-DFB dual laser source. Please specify the desired connector adapter types when ordering using the UCI-APC Adapter Table, below. Additional UCI-APC adapters may also be ordered separately.

Part No. De	escription
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762R-DFB/wavelength code Laser s

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

Specifications

Subject to change without notice

Center wavelengths	Customer specified—see table below
Spectral width (max.)	< 50MHz at -3dB
Side mode suppression	> 33dB
Stability¹, 1 hr. (typical) 12 hrs.	±0.01dB ±0.03dG
Power output into 9/125 SM fiber ² : Minimum Typical	1000 ±0.5(18)

Wavelength tuning range

Wavelength stability, 12 hrs.

Functions

Modulated output mode, continuous wave output mode, selectable frequency, optional external modulation up to 10kHz, GPIB/IEEE-488 control

Internal modulation

Optical connector interface

Dimensions

ISO 9001

Universal Connector Interface, 8° angle-polished connector (UCI-APC)

12.9 x 3 x 26.2 cm (5 x 1.17 x 10.22 in), one slot in RIFOCS 700 Series rack

Standard Center Wavelengths and Codes

(0)								
Code	Wavelength	Code	Wavelength	Code	Wavelength	Code	Wavelength	
400	(152).99nm	126	1538.19nm	152	1548.51nm	178	1558.98nm	
102	1528.77nm	128	1538.98nm	154	1549.32nm	180	1559.79nm	
104<	1529.55nm	130	1539.77nm	156	1550.12nm	182	1560.61nm	
106	1530.33nm	132	1540.56nm	158	1550.92nm	184	1561.42nm	
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			
114	1533.47nm	140	1543.73nm	166	1554.12nm			
116	1534.25nm	142	1544.53nm	168	1554.94nm			
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			

Continuous wave to 1kHz

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

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DS-M762R-DFB Rev. A http://www.rifocs.com

After 20 minute waxm-up, from \$20°C to +25°C at rated power output.

²⁺¹⁰dBm versions with standard of polarization-maintaining launch fibers available.