

LASER

LAZ-LAB-C/L Band

C/L Band Laser module

The Exail LAZ-LAB-C/L Band is a continuous wave tunable laser embedded in a compact and smart package.

This laser is selected for a C/L Band operation. It was selected to be combined with Exail phase and amplitude C/L Band LiNbO₃ modulators.

The selected laser will enhance the modulated optical performance (insertion loss, extinction ratio, polarization extinction ratio, residual amplitude modulation) and are compliant with the maximum ratings of the modulator.

The Exail LAZ-LAB-C/L Band is coming with a user friendly and easy to use Graphical User interface. This low noise and proven electronic enhances the diode laser optical signal.

The intelligent electronic allows for laser fine tuning, wavelength, and power adjustments.



Features

- C/L Band operation
- Matching laser for LiNbO₃ modulators
- High optical performances
- selected DFB

Applications

- Matching laser for LiNbO₃ modulators
- Carrier suppression
- Fiber optics sensors
- Pulse applications
- Analog transmission

Options

- Other wavelength value
- Higher power level

Related Equipments

- LiNbO₃ modulators

LAZ-LAB-C/L Band Performance Highlight

Parameter		Min	Typ	Max	Unit
Operating wavelength	C-Band	1527.60	-	1565.50	nm
	L-Band	1570.01	-	1608.76	nm
Output power		-	50	-	mW
Output power tuning range		5	-	50	mW
Connection		User friendly Graphical User Interface			-
Compact package		220 x 220 x 52			mm ³

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Optical Characteristics

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Operating wavelength range	C-Band	C-Band version	1527.60	-	1565.50	nm
	L-Band	L-Band version	1570.01	-	1608.76	nm
Optical output power	PCW	CW-adjustable with GUI	5	-	50	mW
Optical output power accuracy	PCW-acc	-	-1	-	1	dB
Optical output power resolution	-	-	-	-	0.01	dB
Frequency range	C-Band	C-Band version	191.5	-	196.25	THz
	L-Band	L-Band version	186.35	-	190.95	THz
Frequency (wavelength) accuracy	-	-	-1.5	-	1.5	GHz
Fine Tune frequency resolution	FTF	-	-	-	1	MHz
Intrinsic spectrum linewidth	-	FWHM @-3 dB, instantaneous	-	10	-	kHz
Side mode suppression ratio	SMSR	-	40	55	-	dB
Relative intensity noise	RIN	@13 dBm	-	-	-145	dB/Hz

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Interfaces, Dimensions and Compliance

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Optical output connector	-	Front panel	FC/APC or SC/APC			-
Optical output fiber	-	Front panel	Polarization maintaining fiber, PM1550			-
Power supply	-	Rear panel	DC POWER JACK 2 mm - 12 V - 2 A			-
Operating temperature	-	Envrionmental	15	-	35	°C
Storage temperature	-	Envrionmental	-20	-	50	°C
Width x Depth x Height	-	Dimensions	220 x 220 x 52			mm ³
Electromagnetic compatibility	EMC	-	EN 61000-4			-
Optical standard	-	-	NF EN 60825-1 & EN 60825-2 Ed.2014			-
Laser class	-	-	Class 1M			-

Maximum ratings

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Power supply	-	-	9	-	18	V _{DC}

Ordering information

LAZ-LAB-C/L Band-□

Operating wavelength:
C-Band: C-Band Tunable laser
L-Band: L-Band Tunable laser

Output connector:
FA (FC/APC)
SA (SC/APC)