

## SINGLE OUTPUT - EDFA

## LB5155D SERIES

### DESCRIPTION

Lindsay's LB5155D series of rack mount Erbium-Doped Fiber Amplifiers (EDFAs) are low noise, high performance optical amplifiers with single optical output powers from 14 dBm to 24 dBm, in 1 dBm steps. The LB5155D EDFAs provide optical isolation on the input and output for stable, low noise operation. Auto output power stability control (APC) and auto temperature control (ATC) are standard features. The LED front panel display is used to provide monitoring and associated alarms for all vital parameters. The LB5155D EDFAs are equipped with RS-232, RJ45 communication interfaces for system network management. Powering is 110–240 VAC or 40–72 VDC. Optional hot-swappable dual switch mode power supplies are available.



### FEATURES

- 1RU standard rack mounted case
- Input/output optical isolators provide low noise figure (< 5.0 dB)
- -3 to +10 dBm input power range
- Available output power (14 dBm to 24 dBm) in 1 dBm steps
- Standard RS-232 & SNMP interfaces
- 110–240 VAC (50 to 60 Hz) powering & 40–72 VDC powering
- APC & ATC control circuits
- Microprocessor monitoring automatically ensures excellent performance
- LED display shows all functioning parameters

## SPECIFICATIONS

PARAMETER	SPECIFICATION	UNIT
Optical Wavelength	1550 ± 10	nm
Optical Input Power	-3 ~ +10	dBm
Optical Output Power	14 – 24 (in 1dBm steps)	dBm
Output Optical power stability	< ±0.2	dB
Polarization Sensitivity	< 0.2	dB
PMD	< 0.5	ps
Optical Return Loss	≥45	dB
Optical Connector	SC/APC or FC/APC	
Optical Fiber Type	Single Mode	
CTB	≥63	dB
CSO	≥63	dB
C/N	≥50	dB
Noise Figure	< 5.0 (0dBm Optical Input)	dB
Powering	110 - 240	VAC
	40 - 70	VDC
Power Consumption	≤50	W
Network Interface	RS232 or RJ45	
Dimension:	480 × 380 × 44 (W×D×H)	mm
	19 x 15 x 44 (W×D×H)	in
Weight	≤6	kg

\*\* Note: Specifications subject to change without prior notice  
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## LB5155D ERBIUM-DOPED FIBER AMPLIFIER ORDERING MATRIX

	Optical Power	Optical Connector	Powering	Power Supply	Power Socket/Type	Network Management
LB5155D	X	XX	X	X	X	X
14	14dBm	SA= SC/APC	1 110 - 240VAC	1 Single Power supply	A North America	N None
15	15dBm	FA= FC/APC	2 40 - 72VDC	2 Dual Power supply	B Europe	1 SNMP
16	16dBm				C Asia	2 Web
17	17dBm				N None	
18	18dBm					
19	19dBm					
20	20dBm					
21	21dBm					
22	22dBm					
23	23dBm					
24	24dBm					

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