OPTOPUS

Optical Amplifier LX 30

Product information

The LX 30 is part of the Optopus product portfolio.
LX 30 is an optical amplifier based on EDFA technology for use in FTTx and HFC networks.
The Optopus platform is a highly flexible and high density platform for all kinds of analog optical networks. The system is used in any network such as HFC, RF over Glass or RF Overlay in FTTX applications.

Features:

- Optical amplifier for use in WISI Chassis LX 50
- Amplification of optical signals in the C-band
- Up to four output ports with adjustable output power
- Optical test port for the output signal
- Wide input power range enables application as booster- or inline-amplifier
- Low electrical power consumption

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Optical Amplifier
LX 30

Type	LX 30	
Operating wavelength	1530 … 1565 nm	
Input power	-2 … +10 dBm	
Output power configurations	1x or 2x 1x or 2x or 4x 1x or 2x	14.0 dBm 17.5 dBm 21.0 dBm
Gain control range	5 dB (0.1 dB step)	
Noise figure[1]	≤ 5.5 dB	
Return loss input/output	≥ 45 dB	
Isolation output ► input	≥ 40 dB	
Output power tolerance[2]	± 0.5 dB	
Port uniformity	± 0.5 dB	
Optical test port[3]	-2.5 dB	
General data		
Chassis	WISI LX – Module	
Dimension (W x H x D)	30 mm x 133 mm x 320 mm	
Connector type Optical	 SC/APC	
Supply voltage	12 VDC	
Typical power consumption	1x 14.0 dBm 2x 14.0 dBm or 1x 17.5 dBm 4x 17.5 dBm or 2x 21.0 dBm	5 W 6 W 11 W
Maximum power consumption	1x 14.0 dBm 2x 14.0 dBm or 1x 17.5 dBm 2x 17.5 dBm or 1x 21.0 dBm 4x 17.5 dBm or 2x 21.0 dBm	10 W 12 W 16 W 22 W
Operating temperature range	-5°C – +45°C (ETSI EN 300 019 -1-3 Class 3.2)	
	[1] Noise figure at 0 dBm input power, nominal output power and signal wavelength 1550 nm [2] Variation of output power over polarization, wavelength range and temperature range [3] in relation to EDFA output power	

Order information

LX 30 S xx0x

Number of outputs:
1 - 1 output
2 - 2 outputs
4 - 4 outputs

Output Power:
14 - 14.0 dBm
17 - 17.5 dBm
21 - 21.0 dBm

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