

OPTOPUS



1550 nm BC-Transmitter LX 15

Product information



The LX 15 is part of the Optopus product portfolio. LX 15 is a direct modulated fullband transmitter with 1550 nm for use in RF Overlay and RFoG 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 transmitter for use in WISI Chassis LX50
- Adjustable OMI
- Automatic level control (ALC)
- Electronic predistortion
- SBS suppression
- Dispersion compensation

excellence in digital ...

1550 nm BC-Transmitter LX 15



Type	LX 15 S
Laser type	temperature stabilized DFB-Laser
Wavelength	1555 nm \pm 10 nm
Optical output Power	10 dBm (10 mW)
Relative intensity noise (RIN)	< -155 dB \sqrt Hz
Optical return loss	> 40 dB
Frequency range	10 ... 1006 MHz
Input level	
Broadcast	78 dB μ V (PAL-Level)
Narrowcast	84 dB μ V (QAM-Level, 4 dB back off)
Narrowcast-Offset (adjustable)	\pm 2 dB
Gain control range	\pm 5 dB
Isolation (NC \blacktriangleright BC)	\geq 50 dB
RF test point	-20 dB BC-Input level
Electrical return loss	\geq 20 dB (-1 dB /Oct., min. 17 dB)
Ripple (E – O)	$\leq \pm$ 0.5 dB
SBS suppression	
LX 15 S 1000	16 dBm
LX 15 S 1001	21 dBm
Fiber length max.	
LX 15 S 1000	25 km
LX 15 S 1001	15 km
Signal performance (42 Ch. CENELEC) CSO/ CTB	\geq 60 dBc / \geq 65 dBc
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
RF	F (75 Ohm)
Supply voltage	12 VDC
Power consumption	\leq 7 W
Operating temperature range	-5°C – +45°C (ETSI EN 300 019 -1-3 Class 3.2)

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