

OPTOPUS



Dual 1310 nm Transmitter LX 12

Product information



The LX 12 is part of the Optopus product portfolio. LX 12 is a dual direct modulated fullband transmitter with 2x 1310 nm for use in 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:

- Dual optical HFC transmitter for use in WISI Chassis LX 50
- Adjustable OMI
- Automatic level control (ALC)
- Fullband transmitter 10 - 1006 MHz
- Adjustable Narrowcast-Input

excellence in digital ...

Dual 1310 nm Transmitter LX 12



Type	LX 12
Laser type	uncooled DFB-Laser
Wavelength	1310 nm \pm 10 nm
Optical output Power	3 dBm (2 mW) or 6 dBm (4 mW)
Relative intensity noise (RIN)	< -150 dB \sqrt Hz
Optical return loss	> 40 dB
Frequency range	10 ... 1006 MHz
Frequency response	$\leq \pm$ 0.75 dB
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)
Signal performance (42 Ch. CENELEC)	
CSO	\geq 60 dBc
CTB	\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 12 W
Operating temperature range	-5 $^{\circ}$ C – +45 $^{\circ}$ C (ETSI EN 300 019 -1-3 Class 3.2)

Order information

LX 12 S XXXX



Output Power:

0300 - 3 dBm (2 mW)
0600 - 6 dBm (4 mW)

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