

OPTOPUS

DWDM Transmitter

LX 17



Product information



LX 17 is a DWDM transmitter with an ITU-specific wavelength for use in HFC broadcast/narrowcast applications. 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 / Auto OMI
- Electronic predistortion
- SBS suppression
- Dispersion compensation

excellence in digital ...

Type	LX 17 S 10xx
Laser type	temperature stabilized DFB-Laser
Wavelength	ITU Ch. 30 ... 37
Optical output Power	10 dBm (10 mW)
Relative intensity noise (RIN)	< -155 dB $\sqrt{\text{Hz}}$
Optical return loss	> 40 dB
Frequency range	10 ... 1006 MHz
Input level	
Low Level	78 dB μV (PAL-Level)
High Level	84 dB μV (QAM-Level, 4 dB back off)
Isolation (HL \blacktriangleright LL)	\geq 50 dB
RF test point	-20 dB Low Level / -30 dB High Level
Electrical return loss	\geq 20 dB (-1 dB /Oct., min. 17 dB)
OMI control range	4 ... 12%
Signal performance	(32 ch. QAM256 with 4% OMI and -6 dBm at the receiver)
MER	\geq 44 dB
BER	\leq 10 ⁻⁹
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)

Order information

LX 17 S 10xx

Wavelength/ITU channel:

30 - 1553.33 nm
 31 - 1552.52 nm
 32 - 1551.72 nm
 33 - 1550.92 nm
 34 - 1550.12 nm
 35 - 1549.32 nm
 36 - 1548.52 nm
 37 - 1547.72 nm

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