

OPTOPUS

CWDM US Transmitter

LX 13



Product information



The LX 13 is part of the Optopus product portfolio. LX 13 is a dual CWDM upstream transmitter with two adjacent CWDM wavelengths for use in return path applications 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:

- High Density Dual CWDM-Transmitter
- Two CWDM transmitter in one module
- Highest performance with dual-stage isolator
- Adjustable OMI

excellence in digital ...

Type	LX 13
Laser type	uncooled DFB-Laser
Wavelength	1470 ... 1610 nm in 20 nm steps
Optical output Power	3 dBm (2 mW) or 5 dBm (3.16 mW)
Relative intensity noise (RIN)	< -145 dB $\sqrt{\text{Hz}}$
Optical return loss	> 40 dB
Frequency range	5 ... 500 MHz
Frequency response	$\leq \pm 0.75$ dB
Input level	
Low-Level-Input	78 dB μV
High-Level-Input	88 dB μV
OMI control range	3 ... 10 %
Isolation (NC \blacktriangleright BC)	≥ 50 dB
RF test point	-20 dB / -30 dB (Low-Level-/High-Level-Input)
RF return loss	≥ 20 dB
Dynamic range @ 40 dB NPR	≥ 10 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
RF	F (75 Ohm)
Supply voltage	12 VDC
Power consumption	≤ 10.5 W
Operating temperature range	-5 °C ... +45 °C (ETSI EN 300 019 -1-3 Class 3.2)

Order information

LX 13 S XXXX

Wavelength:	12 - 1471/1491 nm
	34 - 1511/1531 nm
	56 - 1551/1571 nm
	78 - 1591/1611 nm
Output Power:	03 - 2 x 3 dBm (2 mW)
	05 - 2 x 5 dBm (3.16 mW)

WISI Communications GmbH & Co. KG

Empfangs- und Verteiltechnik
Wilhelm-Sihn-Straße 5–7
75223 Niefern-Oeschelbronn, Germany

Telefon +49 72 33-66-0 Fax -3 50
info@wisi.de
www.wisi.de

