

# OPTOPUS

## CWDM US Transmitter

### LX 13



**ELPAS**



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 $\mu$ V
High-Level-Input	88 dB $\mu$ V
OMI control range	3 ... 10 %
Isolation (NC $\blacktriangleright$ BC)	$\geq 50$ dB
RF test point	-20 dB / -30 dB (Low-Level-/High-Level-Input)
RF return loss	$\geq 20$ dB
Dynamic range @ 40 dB NPR	$\geq 10$ dB
<b>General data</b>	
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	$\leq 10.5$ 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)

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