

WISI LR 91 W 1550

Compact node for CATV downstream reception and RF Overlay



Description

The LR91 W 1550 is a compact receiver for CATV distribution networks and RF overlay. The integrated, very narrow-band, WDM filter allows the out-coupling of the xPON wavelengths, which are additionally connected to the CATV. It has a high output level up to 100 dB μ V in the frequency range up to 1 GHz.

At a glance:

- Compact node for CATV downstream reception and RF Overlay
- Extremely low noise optical receiver
- High RF output level, switchable: 80 dB μ V (flat) or 100 dB μ V (6 dB slope) for 4% OMI
- Manual adjustment of optical level compensation for maximum flexibility
- Test port for RF output signal
- Monitoring LED and DC test port for optical input power
- High-Isolation PON pass-through port for CATV overlay in single-fiber FttX networks

Technical data

Downstream

Wavelength CATV	1551 nm ($\pm 6,5$ nm)
Optical input power	-8...+1 dBm
LED monitoring optical input level	red: low/high, green: OK
Frequency range	47...1006 MHz
RF output level, sloped	100 dB μ V (CENELEC 42 channels, 6 dB slope, at CSO/CTB >60 dB)
RF output level, flat	80 dB μ V (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Attenuator downstream	0...20 dB (infinitely variable)
Frequency response	± 1 dB
Equivalent noise input	max. 4 pA \sqrt /Hz
Output test point	-20 dB

PON-WDM

PON wavelengths	1260 ... 1537,5 nm & 1564,5 ... 1620 nm
Insertion loss	<1 dB
Isolation COM -> RF downstream	>45 dB (@ 1310 nm & 1610 nm)
Isolation COM -> PON	>25 dB (@ 1551 \pm 6.5 nm)
Isolation PON -> RF-Downstream	>60 dB

Connectors

Optical connector PON Port	SC/APC connectors
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RF connectors	F female, 75 Ω

General data

Fiber type	Single mode fiber 9/125 μ m
RF return loss	min. 16 dB
Supply voltage	230 V AC
Power consumption	6 W
Ambient temperature	-20...+50 $^{\circ}$ C
Dimensions (width x height x depth)	163 x 90 x 50 mm

Packaging data

Sales unit	pcs.
Dimensions (WxHxD) sales unit	mm
Packaging volume sales unit	dm ³
Gross weight sales unit	kg
Shipping unit	pcs.
Dimensions (WxHxD) shipping unit	mm
Packaging volume shipping package	dm ³
Gross weight shipping unit	kg
EAN	4010056734916
Article number	73491
Customs tariff number	85287119