

Triax Optical LNB

TOL 32 optical LNB - Art No. 307610

TOL 64 optical LNB - Art No. 307611

General description:

The Triax TOL32 and TOL 64 Optical LNB are high quality, high performance universal LNBs that provide excellent LNB performance. They also provide 1310 nm wideband optical output from one frequency range (950-5450 MHz) containing up to four stacked satellite polarities.

This frequency range can be transmitted via a modern single laser over a very large distance, to a link that can accommodate signal splitting to 32 ways (TOL 32) or 64 ways (TOL 64). This allows a system setup that can drive a large Passive Optical Network (PON) before the signal is finally fed into a number of virtual converters for traditional coax distribution.

The patented stacking/de-stacking technology provides a very cost efficient solution, as a single laser carries the full four satellite polarities in one optical cable. This, in contrast to traditional fibre optical solutions that require one laser per polarity, is a substantial cost saving, without compromising satellite signals, range or quality. Not only is the investment in fibre optical cables kept to an absolute minimum, but the entire PON installation benefits from the same savings as well.

Power supply is included in the kit. A high-quality FC/PC type fibre optical connector is used for optimum outdoor performance. The Optical LNB uses DC power sourced via a coax cable and an F-connector.



- ✓ Universal LNB with fibre optic output for long range coverage
- ✓ Converts SAT-IF into an optical signal
- ✓ Minimizes losses over long distances (max. 0.3dB/km versus 32dB/100m on coax)
- ✓ TOL 32 supports up to 32 way splitting (32 converters)
- ✓ TOL 64 supports up to 64 way splitting (64 converters) because of enhanced performance of the converter
- ✓ Uses 1310 nm technology



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Technical specifications:

Type		TOL 32	TOL 64
Art. No.		307610	307611
Frequencies			
Input frequency range	GHz	10,7 – 12.75	10,7 – 12.75
Band stacking, vertical	GHz	0.950 – 3.0	0.950 – 3.0
Band stacking, horizontal	GHz	3.4 – 5.45	3.4 – 5.45
Polarization	Linear	Horizontal and Vertical	Horizontal and Vertical
Optical			
Wavelength	nm	1310	1310
Optical output power, (nominal @ 25 °C)	dBm	7.0	7.0
Equivalent split levels possible (max.)	ways	32	64
Loss budget (max) with optical converters TVC/TVQ	dB	19.0	22.0
Noise			
Noise figure (typical @ 25°C)	dB	0.5	0.5
Gain			
Conversion gain (min. / max.)	dB	62 / 72	62 / 72
Local Oscillator (L.O.)			
L.O. frequency, vertical	GHz	9.75	9.75
L.O. frequency, horizontal	GHz	7.3	7.3
Additional			
Image rejection (min.)	dB	40	40
Cross polar isolation (typ.)	dB	30	30
Spurious output - (950 MHz - 3 GHz, 3.4 GHz - 5.45 GHz)	dBc	-25	-25
LNB type		Universal Wholeband	Universal Wholeband
Supply voltage, nominal	VDC	12	8 - 20
Supply voltage, maximum survival voltage	VDC	25	25
Current consumption	mA	< 450	< 160 @ 12V
DC-input connector		F-type, female	F-type, female
Power supply unit (included)		TPS 322 (Art. No. 307658)	TPS 323 (Art. No. 307657)
Optical output connector		FC/PC	FC/PC
Dimensions / Temperature			
Mounting dimensions / neck diameter	mm	40	40
Ambient operating temperature range	°C	-30 - +60	-30 - +60
Storage temperature range	°C	-40 - 70	-40 - 70
Weight	kg	0.35	0.35
Dimensions (W x H x D)	mm	173 x 108 x 68	173 x 108 x 68

Recycling:

This product is manufactured in compliance with current EU environmental and recycling requirements and standards (WEEE, RoHS, etc.). Please observe your local implementation and requirements when recycling.

