

connecting the future



TOL 32 - Optical SAT Fullband LNB, 32-way

Article number: 307610

Product description:

TOL 32

The Triax TOL32 Optical LNB is a high quality, high performance universal LNB, that, in addition to excellent LNB performance, provides a 1310 nm wideband optical output where all four satellite polarities are stacked into one frequency range (950-5450 MHz). Using modern laser technology this frequency range can be transmitted via a single laser over a very large distance, at a link budget that can sustain splitting into 32 ways.

This allows a system setup that can drive a fairly large Passive Optical Network (PON) before the signal is finally fed into a number of optical re-converters for traditional coax distribution. The 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 nor quality.

This means that not only is the investment into fibre optical cables kept at an absolute minimum, the full PON benefit from the same savings too. The Optical LNB is DC power sourced via a coax cable and an F-connector. Power supply is included in the kit. A high-quality FC/PC type fibre optical connector is used for optimum outdoor performance.

Specifications

ORDER INFORMATION	
EAN Number	5702663076105
OPTICAL CHARACTERISTICS	
Optical budget for PON (max.)	19.0 dB
Optical output level (nom. @ 25 °C)	7 dBm
Optical splitting in PON (max.)	32
CHARACTERISTICS	
Feedhorn diameter	40 mm
Fibre link distance max. (subject to PON loss)	10 km
Laser class	1M
L.O. frequency, horizontal	7.3 GHz
L.O. frequency, vertical	9.75 GHz
Reception frequency range	10.7 - 12.75 GHz
Reception polarization	horizontal & vertical
SAT-IF horizontal band, stacked HL + HH	3.4 - 5.45 GHz
SAT-IF vertical band, stacked VL + VH	0.950 - 3.0 GHz
Spurious in SAT-IF band	-25 dBc
Wavelength	1310 nm
GAIN	
Gain	62 - 72 dB

Noise figure (typical)	0.5 dB
ISOLATION	
Cross polar isolation (typ.)	30 dB
OPERATIONAL	
DC Operating voltage	12 VDC
External PSU item ID	307658 (TPS322-12Vdc/0.5A)
External PSU	Included
Temperature - operating	-30 ... +60 °C
Temperature - storage	-40 ... +70 °C
Weather Proof Rating	IP 65
DC Current consumption	< 450 mA
CONNECTORS	
Connector	Optical - FC/PC
Connector Optical	Optical - FC/PC
Connector power supply	F-female
Connector OUT	Optical - FC/PC
MECHANICAL	
Dimensions product (H x D x W)	173 x 108 x 68 mm
Packaging Depth	0,180 m
Packaging Height	0,083 m
Total Weight	0,798 kg
Packaging Width	0,115 m
Net Weight	0,750 kg
Remarks	230 VAC -> 12 VDC/0,5A
Tara Weight	0,048 kg
Packaging Volume	0,002 m3