Data sheet





Optical LNB

FO series

art. 19-001A FO-LNB 10dBm

This LNB allows the reception of 4 polarizations of a satellite and converting them into a single working band (950 MHz to 5,45 GHz), thus obtaining an output optical signal.

It is equipped with three connectors:

- no. 1 FC/PC optical output connector, where are the signals converted from optical to electric, (modulated laser output: 1310 nm);
- no. 1 screw F type connector, for the power supply;
- no. 1 screw F type connector, for possible mixing of TV signals.

This optical LNB allows to connect up to 64 optical receivers, located within a 10 km radius. Compatible with optical receivers art. 19-009, 19-010 and 19-012.

The included 12V 0,5A power supply is equipped with a screw F type connector that can be connected to the LNB via coaxial cable (not supplied).

Characteristics

 It has a capacity for up to 64 fibre converter with 20 dB maximum attenuation

Code		19-001A
Item		FO-LNB 10 dBm
No. of optical outputs		1
Optical output connector		FC/PC
Power supply connector		screw F type
TV signals input connector		screw F type
TV signals input impedance	Ω	75
SAT input frequency range	MHz	10700 ÷ 12750
TV input frequency range	MHz	47 ÷ 862
TV signals input level	dBuV	70 ÷ 85
SAT output frequencies	MHz	V: 950 ÷ 3000 H: 3400 ÷ 5450
TV output frequencies	MHz	47 ÷ 862
L.O.	GHz	V: 9,75 H: 7,3
Stability	MHz	± 1,0 (max) @ +25°C ± 2,0 (max) @ -30 ÷ +70°C
Conversion gain	dB	65 typ.
Gain flatness	dB	±0,5 / 27MHz
Noise figure	dB	0,3 typ.
Max optical output power	dBm	10
Wavelenght	nm	1310
Optical cabling fibre type		single mode 9/125
Cross-polarization	dB	25 typ.
L.O. phase noise	dBc/ Hz	-60 dBc/Hz @ 1 KHz -80 dBc/Hz @ 10 KHz -100 dBc/Hz @100 KHz
Image rejection	dB	40 min.
Output VSWR		2.0 : 1 typ.
Low/high band switching		low: 0Hz high: 22KHz ±4
V/H pol. switching voltage		V: 10.5 ÷ 14 V H: 16 ÷ 20 V
Consumption @ 12 V	mA	150 typ.
Power supply	Vdc	12
Upstream current on conn. 'Ter.'	mA	250 max
Output voltage on conn. 'Ter.'	Vdc	12
Included power supply unit		12V 0,5A
Housing material		PVC con filtro UV
Feed diameter	mm	40
Dimensions (LxWxH)	mm	140x60x140
Packaging dimensions (LxWxH)	mm	143x152x65
Packaging weight	Kg	0,453
Humidity	%	0 ÷ 90
Operating temperature	°C	0 ÷ +40
Storage temperature	°C	-30 ÷ +70

• The optical signal distribution is only done by a 9/125 single-mode fibre cable.



SAT

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