

LNB.4SAT

SATELLITE-TV LNB + INTEGRATED FREQUENCY STACKER

Application

- ▶ Downconversion of Ku-Band DVB-S signals of 2 polarities into SAT-IF and stacking into one combined RF signal in the frequency range from 950-5450 MHz
- ▶ Usage as headend for optical transmission of Satellite-IF signals

Features

- ▶ High quality, high performance universal LNB
- ▶ Provides SAT RF Multiplex-signal from 950...5450 MHz

General Technical Data

LNB type	Universal Digital LNB	
Input frequency range	[GHz]	10,70 - 12,75 GHz
Output Frequency range	[MHz]	950 ... 5450
Output impedance	[Ω]	50
Frequency response	[dB]	±2
Noise figure (typical at 25°C)	[dB]	0.5
Noise figure (max. at 25°C)	[dB]	1.1
Noise figure (typical. -30 to +60°C)	[dB]	<0.7
Noise figure (max. -30 to +60°C)	[dB]	<1.3
Return loss	[dB]	≥ 6
Conversion gain (max. -30 to +60°C)	[dB]	<72
Conversion gain (typical at 25°C)	[dB]	<62
Gain variation (-30 to +60 °C)	[dB]	±2
Gain flatness (0.95 to 5.45 GHz)	[dB]	5
Gain ripple (per 26MHz bandwidth segment)	[dB]	<0.5



L.O. Frequency vertical	[GHz]	9,75
L.O. Frequency horizontal	[GHz]	7,30
L.O. Phase noise (Offset frequency 1 kHz)	[dBc/Hz]	-55
L.O. Phase noise (Offset frequency 10 kHz)	[dBc/Hz]	-80
L.O. Phase noise (Offset frequency 100 kHz)	[dBc/Hz]	-100
L.O. Phase noise (Offset frequency 1 MHz)	[dBc/Hz]	-110
L.O. Stability, initial setting	MHz	±1
L.O. Temperature drift (-40 °C to +60 °C)	MHz	±2
L.O. Aging and total drift (10 years)	MHz	±4
Image rejection (min.)	[dB]	40
Cross polar isolation (typ.)	[dB]	30
Cross polar isolation (min.)	[dB]	25
Spurious output - in band	[dBc]	-25
LNB type		Universal Wholeband
Supply voltage, nominal	VDC	12
Supply voltage, maximum survival voltage	VDC	25
Current consumption	mA	<450
Climatic specification- Operation	[°C]	-30 ...+60
Climatic specification- Storage	[°C]	-40 ...+70

Ordering Information

For more information on this product please contact BKtel communications.