

ACLNBSI-Ka-Ex-V3

Single Ka-band LNB Hermes Series with internal reference

The ACLNB-Ka family of LNBs is designed for the most challenging Ka-band professional & military satellite communication systems (ground, SOTP, SOTM, maritime, etc.).

Latest technology is applied to obtain the best noise figure, phase noise, gain stability and return losses according to MIL-STD-188-164C. The ACLNB-Ka family is a high reliability solution designed for harsh environmental conditions, with every single production unit fully tested in climatic chamber and delivered with a complete factory acceptance test report.

- Migh phase noise performance
- Internal reference with stability ± 1 ppm
- High spur rejection in the whole output band



HERMES

God of frontiers and travellers. He receives the news from the gods and transmits it to the world in the same way that our LNBs receive information from the most distant satellites and transmit it to the modem without distortion, spuriousness or hardly any extra noise to the communication channel.



Receiver

Input frequency	19.2 to 22.2 GHz
Input Ka-band VSWR (50 Ω)	< 1.3:1
Output frequency	950 to 2000 MHz
Output L-band VSWR (50 Ω)	< 2.0:1
Spectrum inversion	None
Max. input level without damage	0 dBm
Gain	> 60 dB
Gain flatness	±2.0 dB over whole BW
Gain stability (24 hours)	±0.25 dB @ constant T
Gain variation over temperature	±2.0 dB
Noise figure @ 25 °C	≤ 1.5 dB
Noise temperatura @ 25 °C	≤ 120 K
Image rejection	> 45 dB
Output PldB	> +10 dBm
In-band spurious @ P _{OUT} = 0 dBm	<-60 dBc

Local Oscillator

Output phase noise (IESS-308/309 – 5 dB)		
	100 Hz 1 kHz 10 kHz 100 kHz	-65 dBc/Hz -75 dBc/Hz -85 dBc/Hz -95 dBc/Hz
Internal reference		10 MHz
Internal reference stability		±1 ppm

Enviromental

Storage temperature	-40 °C to +85 °C
Operating temperature	-20 °C to +60 °C
Relative humidity	up to 100%
Operating altitude	up to 3000 m

Mechanical

Size (LxWxH)	114 x 58 x 36 mm 4.5 x 2.3 x 1.4 in
Weight	350 g 0.8 lbs
Finish	RAL 9003 (White)

Interfaces

All mating connectors provided

RX input (Ka-band)	WR42 grooved (PBR 220)
RX output (L-band + Ext. Ref. + DC)	Type N(F) 50 Ω

Power Supply

DC input voltage	9-15 V _{DC}
Consumption	370 mA

Order information

Part-number	Input	Output	LO frequency	
ACLNBSI-Ka-E1-V3	19.2 - 20.2 GHz	1000 - 2000 MHz	18.200 GHz	
ACLNBSI-Ka-E1-V3	3SI-Ka-E1-V3 20.2 - 21.2 GHz 1000 - 200		19.200 GHz	
ACLNBSI-Ka-E22-V3	20.2 - 21.2 GHz 950 - 1950 MHz		19.250 GHz	
ACLNBSI-Ka-E60-V3	CLNBSI-Ka-E60-V3 21.2 - 22.2 GHz 1000 - 2000 N		20.200 GHz	

Options

Option C	RX output connector SMA(F) 50 Ω
Option T	Operating temperature -40 °C to +60 °C

Any other frequency band or custom specification available under request. Please, contact factory. Specifications are subject to change without notice.

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