

Ka-BAND LOW NOISE BLOCK (LNB)

ACLNBD-Ka-E11-V2

Dual Band Series



Ed.07

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ACLNBD-Ka Standard Series has been designed to meet restrictive specifications for Ka Band communication systems. The equipment has a typical gain of 60 dB with a noise figure lower than 1.6 dB, with low weight and dimensions. Band selection is arranged by simple switching DC input level 13/18 V_{DC}.

ACLNBD-Ka Standard Series has been tested over the specified temperature range, providing good gain stability with temperature and very high reliability.

RECEIVER SPECIFICATIONS

Input frequency	19.2 to 21.2 GHz
Input Ka-band VSWR (50 Ω)	< 1.3:1
Output frequency	950 to 2000 MHz (See options)
Output L-band VSWR (50 Ω)	< 2.0:1
Spectrum inversion	None
Maximum input level without damage	0 dBm
Gain	> 60 dB
Gain flatness over the whole channel bandwidth	± 1.5 dB
Gain flatness over any 40 MHz.....	± 0.5 dB
Gain stability over 24 hours	± 0.25 dB @ constant temperature
Gain variation over temperature.....	± 1.5 dB over the whole range
Noise figure @ 25°C	≤ 1.6 dB (1.4 dB typ)
Image rejection.....	> 45 dB
Output P1dB	> +10 dBm
In-Band Spurious.....	< -60 dBc @ P _{out} = 0 dBm
Output phase noise (IESS-308/309 – 5 dB)	
100 Hz	-65 dBc/Hz
1 kHz.....	-75 dBc/Hz
10 kHz	-85 dBc/Hz
100 kHz.....	-95 dBc/Hz
External reference (multiplexed on L-band output)	10 MHz / 0 dBm ± 5 dB
DC input voltage (multiplexed on L-band output)	12-18 V _{DC}
DC current consumption @ 12 V _{DC}	320 mA typ
Storage temperature	-40 to +85°C
Operating temperature.....	-20 to +60°C
Relative humidity	up to 100%
Operating altitude.....	up to 4500 m
Interfaces	
RX input (Ka-Band)	WR42 grooved (PBR 220)
RX output (L-Band+DC+External Reference)	Type N(F) 50 Ω
Dimensions	120 x 60 x 40 mm / 4.7 x 2.3 x 1.6 inches
Weight	450 g / 1.0 lbs
Finish	RAL 9003 (White)

Ka-band input	L-band output	LO frequency	Standard frequency option
19.2 to 20.2 GHz	1000 to 2000 MHz	18.200 GHz @ 13 V _{DC}	ACLNBD-Ka-E11-V2-0A
20.2 to 21.2 GHz	1000 to 2000 MHz	19.200 GHz @ 18 V _{DC}	
19.2 to 20.2 GHz	950 to 1950 MHz	18.250 GHz @ 13 V _{DC}	ACLNBD-Ka-E11-V2-0B
20.2 to 21.2 GHz	950 to 1950 MHz	19.250 GHz @ 18 V _{DC}	

LN1: RX output connector type SMA(F) 50 Ω

LN2: Operating temperature -40 to +60°C

LN3: Internal reference (ACLNBDI-Ka-E11-V2 freq. stability ±1 ppm)

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



c/ El Castro, 22N, 39011, Santander, Cantabria, Spain



Tel: +34 942 766 44 00



Fax: +34 942 76 44 03



www.acorde.com



sales@acorde.com