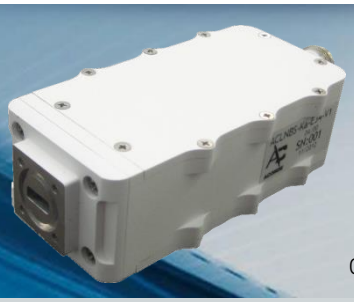
Ka-BAND LOW NOISE BLOCK (LNB)

ACLNBP-Ka-Ex-V4

Premium Series



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ACORDE

ACLNBP-Ka Premium 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 1.3 dB typically, with low weight and dimensions.

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

RECEIVER SPECIFICATIONS

Input frequency	20.2 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)	< 1.5:1
Spectrum inversion	None
Maximum input level without damage	0 dBm
Gain	> 60 dB
Gain flatness over the whole 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	≤ 1.5 dB (1.3 dB typ)
Image rejection	> 45 dB
Output P1dB	> +10 dBm
In-Band Spurious	< -65 dBc @ Pout = 0 dBm
Desensitization	> -30 dBm (TX Band 30.0-31.0 GHz)
Output phase noise (IESS-308/309 – 10 dB)	
100 Hz	-63 dBc/Hz
1 kHz	-80 dBc/Hz
10 kHz	-90 dBc/Hz
100 kHz	-100 dBc/Hz
External reference (multiplexed on L-band output)	10 MHz / 0 dBm ± 5 dB
DC input voltage (multiplexed on L-band output)	9-15 V_{DC}
DC current consumption	350 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	114 x 58 x 36 mm / 4.5 x 2.3 x 1.4 inches
Weight	350 g / 0.8 lbs
Finish	RAL 9003 (White)

Ka-band input	L-band output	LO frequency	Standard frequency option
20.2 to 21.2 GHz	1000 to 2000 MHz	19.200 GHz	ACLNBP-Ka-E2-V4
20.2 to 21.2 GHz	950 to 1950 MHz	19.250 GHz	ACLNBP-Ka-E22-V4

LN1:	RX output connector type SMA(F) 50 Ω
LN2:	Operating temperature -40 to +60°C
LN3:	Internal reference (ACLNBPI-Ka-Ex-V4 freq. stability ±1 ppm)

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

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