

Ka BAND LNB Dual Band Series

ACLNBD-Ka-E11-V2



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 VDC.

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 21.2GHz
Input Ka-band VSWR (50Ω)	<1.3:1
Output Frequency	950 to 2000 MHz (see options)
Output L-band VSWR (50Ω)	<2.0:1
Spectrum Inversion	None
Max Input level without damage	0dBm

TRANSFER SPECIFICATIONS

Gain	>60dB
Gain Flatness over the whole channel bandwidth	±1.5dB
Gain flatness over any 40MHz	±0.5dB
Gain Stability over 24 hours	±0.25dB @ const. Temp.
Gain Stability over temperature	±1.5dB over the whole range
Noise figure @25°C	≤1.6dB (1.4dB typ.)
Image rejection	>45dB
Output P1dB	>+10dBm
In-Band Spurious	<-60dBc @Pout=0dBm
Output Phase noise (IESS-308/309 – 5dB)	
100Hz	-65dBc/Hz
1Kz	-75dBc/Hz
10KHz	-85dBc/Hz
100KHz	-95dBc/Hz
External reference (Mux on L-Band output port 2)	10MHz/ 0dBm ± 5dB

POWER SUPPLY

DC Input Voltage (mux on L-band Output port 2)	12-18Vdc
DC Current Consumption @12Vdc	320mA typ

ENVIRONMENT

Storage Temperature	-40 to +85°C
Operating Temperature	-20 to +60°C
Relative humidity	up to 100%
Operating altitude	up to 4500m

MECHANICAL

Interfaces	
RX input (Ka-band)	WR42 grooved
RX output (L Band+DC+Ext. Ref)	Type N(F) 50Ω
Dimensions	
	120 x 60 x 40mm
	4.7 x 2.3 x 1.6 in.
Weight	450g/1.0lbs
Finish	RAL9003 (white)

OPTIONS

LN1	RX output connector type SMA (F) 50Ω
LN2	Operating temp. -40 to +60°C
LN3	Internal Ref (ACLNBID-Ka-E11-V2 freq. stab. ±1ppm)

Ka-band input	L-band output	LO frequency	Standard frequency option
19.2 to 20.2GHz	1000 to 2000MHz	18.200GHz	ACLNBD-Ka-E11-V2-OA
20.2 to 21.2GHz	1000 to 2000MHz	19.200GHz	
19.2 to 20.2GHz	950 to 1950MHz	18.250GHz	ACLNBD-Ka-E11-V2-OB
20.2 to 21.2GHz	950 to 1950MHz	19.250GHz	

Based on ACORDE DATASHEET aclnbd-ka-e11-v2 Ed.07 from 05/10/16

