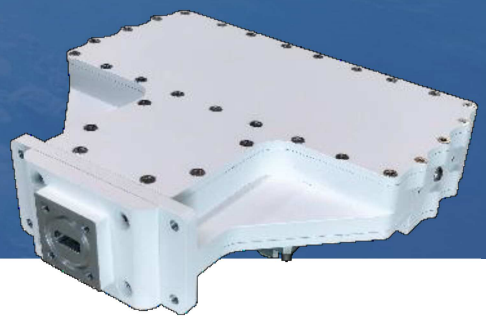
EUROSATCOM

Ka BAND LNB
Ultra-WideBand Series
Mutli-output
ACLNBW-Ka-E45-V3



ACLNBW-Ka Ultra-Wideband 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 1.8 dB, with low weight and dimensions. Single input and simultaneous output ports are provided so no channel selection is needed. ACLNBW-Ka Ultra-Wideband Series has been tested over the specified temperature range, providing good gain stability with temperature and very high reliability.

RECEIVER SPECIFICATIONS

Input Frequency	17.7 to 22.2GHz
Input Ka-band VSWR (50Ω)	<1.5:1
Output Frequnecy	1000 to 2150MHz
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	±2.0dB
Gain flatness over any 40MHz	±0.5dB
Gain Stability over 24 hours	±0.25dB @ const. Temp.
Gain variation over temperature	±1.5dB over the whole range
Noise figure @25°C	≤1.8dB (1.6dB typ.)
Image rejection	>40dB
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	10MHz/ 0dBm ± 5dB

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POWER SUPPLY

DC Input Voltage	12-24Vdc
DC Current Consumption @24Vdc	500 mA typ 125mA @ each port

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 @ each port)	Type N(F) 50Ω
Dimensions	140 x 115 x 40mm 5.5 x 4.5 x 1.6 inches
Weight	950g/2.1lbs
Finish	RAL9003 (white)

OPTIONS

LN1	RX output connector type SMA (F) 50Ω
LN2	Operating temp. -40 to +60°C
LN3	Internal Ref (ACLNBWI-Ka-E45-V3 freq. stab. ±1ppm)
LN4	Supply & ext. Ref. using only single port

Ka-band input	L-band output	LO frequency	Standard frequency option
17.70 to 18.85 GHz	1000 to 2150 MHz	16.700 GHz	ACLNBW-Ka-E45-V3
18.85 to 20.00 GHz	1000 to 2150 MHz	17.850 GHz	
20.00 to 21.15 GHz	1000 to 2150 MHz	19.000 GHz	
12.15 to 22.20 GHz	1000 to 2050 MHz	20.150 GHz	

Based on ACORDE DATASHEET aclnbw-ka-e45-v3 Ed.03 from 06/02/2018

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