

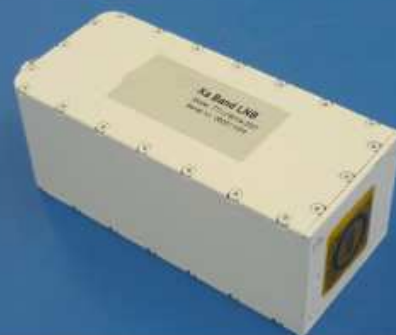
LNB-Ka

Ka-Band Low Noise Block



The **Ka-band LNB Series** are the Low Noise Blocks which converts the satellite signal from Ka band to L band (1-2 GHz). The equipment has a minimum gain of 63 dB, providing very good stability with temperature.

It provides a combination of superior performance, reliability and cost effectiveness.



TECHNICAL SPECIFICATIONS

ELECTRICAL

	LNB-KA-1920	LNB-KA-2021
Input Frequency Band	19.2 – 20.2 GHz	20.2 – 21.2 GHz
Output Frequency Band	1 – 2 GHz	
Local Oscillator	18.2 GHz	19.20 GHz

Output Spectrum.....	Not inverted
Noise Figure.....	< 1.44 dB
Gain.....	> 63 dB
Gain flatness over 36MHz.....	± 0.5dB in any 36MHz
Gain flatness over full bandwidth.....	± 1dB in full band 1GHz
Gain stability over temperature at constant frequency.....	± 0.9dB in full band 1GHZ
Gain stability at constant temperature.....	± 0.5dB 24 hours
P1dB.....	>13dBm
OIP3.....	>24dBm
Input VSWR.....	<1.8:1
Output VSWR.....	<1.53:1
Spurious at P1dB.....	< -60 dBc
IMD.....	-29dBc @ P1dB - 3dB (Pout=10dBm)
Maximum input level.....	-35 dBm
SSB Phase Noise.....	-65dBc/Hz@100Hz -70dBc/Hz@1KHz -90dBc/Hz@10KHz -108dBc/Hz@100KHz -113dBc/Hz@1MHz
External Reference.....	10MHz, 0dBm±5dB (via IF Output Connector)
Power Supply Voltage.....	9 to 18 VDC (supplied through IF Output Connector)
Power consumption.....	303mA (9V), 150mA (18V)

PHYSICAL & INTERFACES

Input RF connector.....	WR-42
Output RF connector.....	N (f)
Size.....	112.7 x 44 x 50 mm

ENVIRONMENTAL

Operational temperature.....	-30°C to 60°C
Storage temperature.....	-40°C to +85°C
Humidity.....	100% condensing



Distributed by :
AA SYSTEL France
9 rue RAVEL, 91620 NOZAY / France
TEL: +33 1 6963 8630
FAX: +33 1 6963 8474
Beijing: +86 138 010 11504
E-mail: gerard.fourreaux@aasystel.com
E-mail: wang.huiqin@aasystel.com
Website: www.aasystel.com