



# TTI-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 60 dB, and a noise figure lower than 1.5 dB.

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



### TECHNICAL SPECIFICATIONS

#### ELECTRICAL

	TTI-LNB-KA-1920	TTI-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	19.2 GHz

Output Spectrum.....	Not inverted
Noise Figure.....	< 1.5 dB
Gain.....	> 60 dB
Gain flatness over 36MHz.....	± 0.5dB in any 36MHz
Gain flatness over full bandwidth.....	± 1.5dB in full band 1GHz
Gain stability over temperature at constant frequency.....	± 2dB in full band 1GHz
Gain stability at constant temperature.....	± 1dB 24 hours
P1dB .....	>10dBm
OIP3.....	>20dBm
Input VSWR.....	<1.8:1
Output VSWR.....	<1.6:1
Spurious at P1dB.....	< -60 dBc
SSB Phase Noise.....	-65dBc/Hz@100Hz -70dBc/Hz@1KHz -88dBc/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.....	300mA (9V), 155mA (18V)

#### PHYSICAL & INTERFACES

Input RF connector.....	WR-42
Output RF connector.....	N (f)
Size.....	105 x 44 x 40 mm
Weight.....	<400g

#### ENVIRONMENTAL

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

