



Ka Band LNB

LNB-KA-1921

Ka Band Dualband Low Noise Block (switchable) for satellite communications

TECHNICAL SPECIFICATIONS

ELECTRICAL

Input frequency band	19.6 – 20.6 / 20.2- 21.2 GHz
Output frequency band	1 – 2 GHz
Local Oscillator	18.6 GHz / 19.2 GHz
Output Spectrum	Not inverted
Noise Figure	< 1.5 dB
Gain	> 60 dB (typ)
Gain flatness over 36MHz	± 0.6dB in any 36MHz
Gain flatness over full bandwidth	± 1.5dB in full band 1GHz (typ)
Gain stability over temperature	± 2dB in full band 1GHz (constant frequency)
Gain stability	± 1dB 24 hours (constant temperature)
P1dB	>10dBm
OIP3	>20dBm
Input VSWR	<2.0:1 (typ)
Output VSWR	<1.6:1 (typ)
Spurious at P1dB	< -60 dBc
SSB Phase Noise	-65dBc/Hz@100Hz, -72dBc Hz@1KHz, -88dBc/Hz@10KHz, -108dBc/Hz@100KHz, -113dBc/Hz@1MHz
External Reference	10MHz, 0dBm±3dB (via IF Output Connector)
Power Supply Voltage	9 to 18 VDC (supplied through IF Output Connector)
Power consumption	300mA (9V), 150mA (18V)

INTERFACES & PHYSICAL

Input RF connector	WR-42
Output RF connector	N (f)
Size	145 x 44 x 60 mm
Weight	<350g

ENVIRONMENTAL CHARACTERISTICS

Operating temperature	-30°C to 55°C
Storage temperature	-40°C to +85°C
Humidity	100% Condensing



Key Features

- Low noise figure
- High reliability
- Superior performance

The Ka-band Dualband LNB (switchable) Series are the Low Noise Blocks which convert 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.