



Ka Band LNB Dual

TTI-LNB-Ka-1820

Ka Band Low Noise Blocks for satellite communications

TECHNICAL SPECIFICATIONS

ELECTRICAL

Input frequency band	18.2 - 19.2 GHz (Band 1) 19.2 - 20.2 GHz (Band 2) (Electronically Switchable)
Output frequency band	1 - 2 GHz
Local Oscillator	17.2 GHz / 18.2 GHz
Output Spectrum	Not inverted
Noise Figure	<1.5 dB
Gain	>60 dB (typ)
Gain flatness over 36 MHz	±0.6 dB in any 36 MHz
Gain flatness over full bandwidth	±1.5 dB in full band 1 GHz (typ)
Gain stability over temperature	±2 dB in full band 1 GHz (constant Frequency)
Gain stability	±1 dB 24 hours (constant temperature)
Image rejection	>30 dB
P1dB	>10 dBm
OIP3	>20 dBm
Input VSWR	<2.0:1 (typ)
Output VSWR	<1.6:1 (typ)
Spurious at P1dB	<-60 dBc
SSB Phase Noise	-73 dBc/Hz @1 KHz, -83dBc/Hz @10 KHz, -93 dBc/Hz @100 KHz
External Reference	10 MHz, 0dBm±3dB (via IF Output Connector)
Power Supply Voltage	13 VDC (Band 1) / 18 VDC (Band 2) (supplied through IF Output Connector)
Power consumption	<5 W

INTERFACES & PHYSICAL

Input RF connector	WR-42
Output RF connector	N (f)
Size	150 x 60 x 40 mm
Weight	< 250 g

ENVIRONMENTAL

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



Key Features

- Dual band
- Low Noise Figure
- High reliability
- Superior performance