

Ka Band LNB

The Ka-Band LNB is designed for use primarily in K/Ka Band satellite applications.

Main Feature

- Ultra Small size
- Low Noise Figure
- Ultra Low Phase Noise



Specification

Item	Parameters	Specifications		
Electrical Spec.	RF Input Frequency	19.20 ~ 20.20 GHz 20.20 ~ 21.20 GHz		
	LO Frequency	18.25 GHz/19.25 GHz		
	IF frequency	950 ~ 1950 MHz		
	Noise Figure	1.5dB		
	Ext. ref. Phase Noise	@ 100 Hz	-100 dBc	
		@ 1 kHz	-110 dBc	
		@ >10 kHz	-115 dBc	
		@ 100 kHz	-125 dBc	
		@ >1 MHz	-145 dBc	
	Ext. freq. reference	10 MHz		
	LO Stability	Slave to Ext. Ref.		
	Conversion Gain	70 dB		
	Gain(absolute linear)	Over input freq. range	Min.65, Max.75	
	Output P1dB	+10 dBm min.		
	OIP3	20 dBm min.		
	LO leakage	At Input, only LO		
	Image Rejection	60dB		
Input VSWR	2.0:1			
Output VSWR	1.7:1			
DC Input Voltage	9 ~ 15 VDC			
Current Consumption	4W Max.			

Item	Parameters	Specifications
Mechanical Spec.	Input Interface	WR-42 with Groove
	Output Interface	F/N/SMA- type Connector
	Dimensions	110.0 x 47.0 x 32.0 mm
	Weight	300g
Thermal Spec.	Humidity	100% Condensing
	Operating temperature	-30 ~ +60 °C
	Storage temperature	-40 ~ +85 °C

Line-Up

Model No.	IF Connector	10Mhz Reference	LO Frequency
PTL-KASIF-Option	F-Type,	Internal	Select 1 LO Freq. (See LO Option)
PTL-KASIN-Option	N-Type		
PTL-KASIS-Option	SMA-Type		
PTL-KASEF-Option	F-Type	External	
PTL-KASEN-Option	N-Type		
PTL-KASES-Option	SMA-Type		

LO Option

01 – LO 18.25 GHz
02 – LO 19.25 GHz

*For other LO frequencies beside the above, Please contact Philtech sales.