

Ka-band LNB Specification



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		Notes
Electrical Spec.	RF Input Frequency	19.20 ~ 20.20 GHz		
	LO Frequency	18.25 GHz		
	IF frequency	950 ~ 1950 MHz		
	Noise Figure	1.5dB		
	Ext. ref. Phase Noise	@ 100 Hz	-135	10MHz
		@ 1 kHz	-145	10MHz
		@ >10 kHz	-155	10MHz
		@ 100 kHz	-115	50MHz
		@ >1 MHz	-135	50MHz
		@ >10 kHz	-145	50MHz
	Ext. freq. reference	50 MHz		@ output connector
	LO Stability	Slave to Ext. Ref.		
	Conversion Gain	70 dB		Nominal value
	Gain(absolute linear)	Over input freq. range	Min.65, Max.75	
	Output P1dB	+10 dBm min.		
	OIP3	20 dBm min.		Output(IF)
	LO leakage	At Input, only LO		
	Image Rejection	18.5 GHz	Min. 20dB	
		21.0 GHz	Min. 20 dB	
	Input VSWR	2.0:1		
Output VSWR	1.7:1			
DC Input Voltage	9 ~ 15 VDC			
Current Consumption	4W Max.			

<i>Item</i>	<i>Parameters</i>	<i>Specifications</i>	<i>Notes</i>
Mechanical Spec.	Input Interface	WR-42 with Groove	
	Output Interface	SMA(F)	50 ohm
	Dimensions	110.0 x 47.0 x 32.0 mm	
	Weight	255 g	
Thermal Spec.	Humidity	100% Condensing	
	Operating temperature	-30 ~ +80 °C	
	Storage temperature	-40 ~ +85 °C	

Line-Up

<i>Model No.</i>	<i>IF Connector</i>
PTLKE00S-01	SMA

Typical Applications

- Global Maritime
- SNG
- On-the-Move VSAT

Mechanical Drawing

