

Ku Band Quad LNB

The Ku-Band Quad LO LNB is designed for use primarily in VSAT applications. This LNB shows so ultra wide bandwidth that covers almost all world-wide Ku-band VAST frequency range(10.7 ~ 12.75 GHz) and its IF frequency band supports almost all kinds of L-Band MODEMs(950 ~1700 MHz).

Main Feature

- Ultra wide bandwidth (full Ku-Band)
- Ultra Small size
- Quad Band (4-LO)
- Low Noise Figure
- ±5kHz LO Stability(Internal option)
- Internal/External 10MHz reference(Optional)
- LO frequency switching by DC input level(13/18V) and 22kHz Tone signal thru IF cable



Specification

Item	Parameters	Specifications	
Electrical Spec.	RF Frequency	10.7 ~ 12.75 GHz	
	LO Frequency	See the below LO option	
	IF Frequency	950 ~ 1700 MHz	
	Phase Noise	@ 1 kHz	-70 dBc
		@ 10 kHz	-80 dBc
		@ 100 kHz	-95 dBc
		@ >1 MHz	-115 dBc
	LO stability	Internal: +-5KHz, External: Depends on Ext. Ref.	
	Gain	65 dB	
	Gain variation	±0.4 dB	
		±4 dB	
	Noise Figure	0.8 dB	
	In/Out VSWR	2:1	
	Band Switch Configuration	Band1	VDC 11.5~14.0V / Tone OFF
		Band2	VDC 11.5~14.0V / Tone ON
Band3		VDC 16.0~19.0V / Tone OFF	
Band4		VDC 16.0~19.0V / Tone ON	
DC Input Voltage	Band1,2	11.5 ~ 14.0 V	
	Band3,4	16.0 ~ 19.0 V	
Current Consumption	300 mA		
Requirements for 22kHz Tone	Freq.	22kHz ± 4 kHz	
	Amp.	0.6 ± 0.2V	
	Duty	50% ± 10%	

Item	Parameters	Specifications
Mechanical Spec.	Input	WR-75 with Groove
	Output (waterproof)	F-Type, N-type, SMA-type (Optional)
	Dimensions	107.3(L) x 38.8(W) x 38.8 (H) mm
	Weight	310g
Thermal Spec.	Operating temperature	-30 ~ +60 °C
	Storage temperature	-40 ~ +80 °C

Line-Up

Model No.	IF Connector	10Mhz Reference	LO Frequency
PTL-KUQIF-Option	F-Type,	Internal	Select 4 LO Freq. (See LO Option)
PTL-KUQIN-Option	N-Type		
PTL-KUQIS-Option	SMA-Type		
PTL-KUQEF-Option	F-Type	External	
PTL-KUQEN-Option	N-Type		
PTL-KUQES-Option	SMA-Type		

LO Option

01 – LO 9.75/10.25/10.75/11.30 GHz
 02 – LO 9.75/10.00/10.75/11.30 GHz
 03 – LO 9.75/10.25/10.75/11.25 GHz
 04 – LO 10.00/10.50/10.75/11.25 GHz
 05 – LO 10.00/10.75/11.30/9.75 GHz
 06 – LO 9.75/10.50/11.05/10.00 GHz

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