

Ku Multi LO LNB(Internal)

The Ku-Band mini-Multi-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

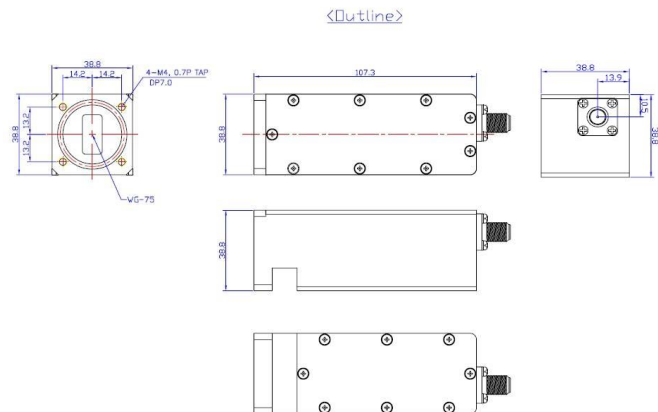
- Ultra wide bandwidth (full Ku-Band)
- Ultra Small size
- Quad Band (4-LO)
- Low Noise Figure
- Ultra Low Phase Noise
- ± 5 kHz Stability
- High IP3 (Option)
- LO frequency switching by DC input level(13/18V) and 22kHz Tone signal thru IF cable
- Separated LNB Controller Module supported



Item	Parameters	Specifications	Notes
Electrical Spec.	RF Frequency	10.7 ~ 12.75 GHz	
	LO Frequency	9.75, 10.0 10.25, 10.5, 10.6, 10.75, 11.05, 11.2, 11.25, 11.3 GHz	Select max. 4 LO frequency
	IF Frequency	950 ~ 1700 MHz	
	Phase Noise	@ 1 kHz	-70 dBc
		@ 10 kHz	-80 dBc
		@ 100 kHz	-95 dBc
		@ >1 MHz	-120 dBc
	LO stability	± 5 kHz	over temp. range
	Gain	65 dB	typ.
	Gain variation	± 0.4 dB	within 30 MHz
		± 4 dB	max.
	Noise Figure	0.8 dB	typ.
	In/Out VSWR	2:1	max.
	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	typ.
	Requirements for 22kHz Tone	Freq.	22kHz ± 4 kHz
		Amp.	0.6 $\pm$ 0.2V
		Duty	50% $\pm$ 10%

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Mechanical Spec.	Input	WR-75 with Groove	
	Output (waterproof)	F-connector N (Optional)	75 ohm (50 ohm)
	Dimensions	147.4(L) x 43.8(W) x 46.6 (H) mm	
	Weight	310g	
Thermal Spec.	Operating temperature	-30 ~ +70 °C	
	Storage temperature	-40 ~ +80 °C	

Mechanical Drawing



Option(LO)

- 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

Line-Up

Model No.	IF Connector	LO Frequency
PTL-KUQIF-Option	F-Type	Select 4 LO frequencies
PTL-KUQIN-Option	N-Type	