

Ku Band Dual LNB

The Ku-Band mini-Dual 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 ~2150 MHz).

Main Feature

- Ultra Small size
- Dual Band (2-LO)
- Low Noise Figure
- Ultra Low Phase Noise
- ±5kHz LO Stability(Internal option)
- Internal/External 10MHz reference(Optional)
- LO frequency switching by DC input level(13/18V) or 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 ~ 2150 MHz 950 ~ 2150 MHz 950 ~ 2000 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 | 62 dB | |
| | Gain variation | ±0.4 dB | |
| | | ±4 dB | |
| | Noise Figure | 0.8 dB | |
| | In/Out VSWR | 2:1 | |
| Band Selection | Option 1 | Voltage 13V/18V | |
| | Option 2 | 22KHz Tone On/Off | |
| Current Consumption | 320 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-connector N (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-KUDIF-Option | F-Type, | Internal | Select 2 LO Freq. (See LO Option) |
| PTL-KUDIN-Option | N-Type | | |
| PTL-KUDIS-Option | SMA-Type | | |
| PTL-KUDEF-Option | F-Type | External | |
| PTL-KUDEN-Option | N-Type | | |
| PTL-KUDES-Option | SMA-Type | | |

LO Option

01 – LO 10.00/11.00 GHz
 02 – LO 10.00/10.75 GHz
 03 – LO 9.75/10.75 GHz
 04 – LO 10.00/10.80 GHz
 05 – LO 9.75/10.60 GHz
 06 – LO 10.00/11.30 GHz
 07 – LO 10.00/10.90 GHz

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