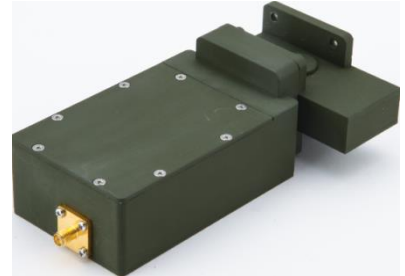


# X-band Up-link LNB

## Main Features

- X-Band Up-link operation (7.9 GHz ~ 8.4GHz)
- Internal & External Reference Detection and Auto Selection
- Frontal Waveguide Isolator
- Ultra Low Noise Figure
- Ultra Low Phase Noise
- Compact size and light weight
- Rugged Design/High Reliability



Parameters	Specifications	
RF Input Frequency	7.9 ~ 8.4 GHz	
LO Frequency	6.95 GHz	
IF frequency	950 ~ 1450 MHz	
Noise Figure	0.75dB typ	
Phase Noise	@ 100 Hz	-80 dBc
	@ 1 kHz	-85 dBc
	@ 10 kHz	-95 dBc
	@ 100 kHz	-105 dBc
	@ >1 MHz	-125 dBc
Min. Ext. Ref. Phase Noise requirements	@ 100 Hz	-125 dBc
	@ 1 kHz	-135 dBc
	@ 10 kHz	-145 dBc
Ext. freq. reference	10 MHz	
Ref. freq. level	> 0 dBm	
LO Stability	External : Slave to Ext. Ref. Internal : ±0.5 ppm	
Conversion Gain	65 dB	
Gain flatness	±0.5 dB	
	±1.5 dB	
Gain stability	≤0.5 dB	
Gain variation	±2 dB	
Output P1dB	+5 dBm	
OIP3	+17dBm	
Image Rejection	> 50dBc	
Input VSWR	1.3:1	
Output VSWR	1.5:1	

Parameters	Specifications
DC Input Voltage	12 ~ 20 VDC
Current Consumption	520 mA
Input Interface	WR-112 with Grooved
Output Interface	SMA/N/F-Type Optional
Dimensions	149 x 94 x 48 mm (with WG isolator)
Weight	605g
Humidity	100% Condensing
Operating temperature	-30 ~ +70 °C
Storage temperature	-40 ~ +85 °C

## Line-Up

Model No.	IF Connector
PTL-XUAS-01	SMA-Type
PTL-XUAN-01	N-Type
PTL-XUAF-01	F-Type