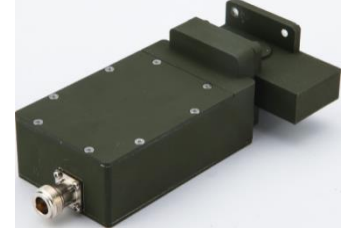


X-band LNB

The X-Band LNB is designed for use primarily in VSAT applications. This LNB shows so ultra low noise and low phase noise performance.

Main Feature

- External Reference (10MHz)
- Frontal WG Isolator (option)
- Low Noise Figure
- Low Phase Noise
- Internal TCXO option



Specification

Item	Parameters	Specifications	
Electrical Spec.	RF Input Frequency	7.25 ~ 7.75 GHz	
	LO Frequency	6.3 GHz	
	IF frequency	950 ~ 1450 MHz	
	Noise temperature	0.7dB	
	Phase Noise	@ 100 Hz	-65 dBc
		@ 1 kHz	-75 dBc
		@ 10 kHz	-85 dBc
		@ 100 kHz	-95 dBc
		@ >1 MHz	-105 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	-10~+15 dBm	
	LO Stability	Slave to Ext. Ref.	
	Conversion Gain	65 dB	
	Gain flatness		±0.75 dB
			±1.5 dB
	Gain stability	≤0.5 dB	
	Gain variation	±2 dB	
Output P1dB	+5 dBm		
OIP3	+17dBm		
LO leakage	-90dBm		
Image Rejection	> 70dBc		
Input VSWR	1.3:1		
Output VSWR	1.5:1		
DC Input Voltage	10 ~ 30 VDC		
Current Consumption	280 mA		

Item	Parameters	Specifications
Mechanical Spec.	Input Interface	WR-112 with Groove
	Output Interface	SMA,F,N Optional
	Dimensions	151.5 x 86.5 x 50.4 mm (with isolator)
	Weight	670 g
Thermal Spec.	Humidity	100% Condensing
	Operating temperature	-30 ~ +70 °C
	Storage temperature	-40 ~ +85 °C

Line-Up

Model No.	IF Connector
PTL-XSIS-01	SMA-Type
PTL-XSIN-01	N-Type
PTL-XSIF-01	F-Type