Quad Polar LNB

4 Fully Switched Output CP/LP LNB







QPH - 031

QPF - 031

The globalinvacom Quad Polar LNB is the first of it's kind and provides 4 fully switched outputs, 2 linear polarized (vertical and horizontal) and 2 circular polarized (LHR and RHC). The **QPH** has a 40mm diameter collar to suit standard offset dishes, whilst the **QPF** (C120 flange) is for use with various types of feed horn, commonly fitted to prime focus dishes. Both LNBs are supplied with gaiters to create a weather-proof seal on the cable connections.

Specification

1.	Input Frequency FSS Band (linear polarization) FSS Band (linear polarization) BSS Band (circular polarization)	11.7 - 12.2 GHz 12.2 - 12.7 GHz 12.2 - 12.7 GHz
2.	Output Frequency FSS Band BSS Band	950 - 1450 MHz 950 - 1450 MHz
3.	Noise Figure QPH-031 QPF-031	0.3 dB typ 0.3 dB typ
4.	Gain	50 - 60 dB
5.	Gain Ripple 26 MHz bandwidth CP Band LP Band	<+/- 0.5 dB <5 dB typ <5 dB typ
6.	Local Oscillator Frequency Low Band High Band	10.75 GHz 11.25 GHz
7.	Local Oscillator Phase Noise (typ) 1 kHz 10 kHz 100 kHz	-65 dBc/Hz -95 dBc/Hz -110 dBc/Hz
8.	Local Oscillator Stability	+/- 1 MHz typ
9.	Current Consumption One Receiver Each Additional Receiver	200mA typ 30mA typ

10. Image Rejection		>40 dB
11. Isolation		
Cross Polar Isolation		>30 dB
High to Low Band Isola	ation	>23 dB
12. Two-tone 3rd Order Int	erception Point (outp	out) >10 dB
13. Output Connector		4 x Female F-type
Impedance		75 Ohm
Return Loss		>10 dB
14. Operating Temperature	Range	-40°C to +70°C
Storage Temperature F	•	-40°C to +70°C
15. Band Polarization Sele	ction	
Signals applied to F-ty	pe connector	
Ports 1 and 3 Linear Po	olarization	
Vertical	Jidi Ization	11.5V to 14V
Horizontal		15.5V to 19V
Ports 2 and 4 Circular I	Polarization	
Right hand CP		11.5V to 14V
Left hand CP		15.5V to 19V
16. Spurious		
Primarily 1000 MHz and	d 500 MHz	<-65 dBm
17. Output Gain Difference		
(between the outputs in		<6 dB
18. QPF - 031 Interface QPH - 031	18.5mm Ø Waveguide, C120 Flange Off-set Parabola Matched, Frequency	

Compensated Feed Horn, 40mm Dish Clamp

