

QUAD POLAR LNB

QPH-031 , QPF-031 Product Specs

4 Fully Switched Output CP/LP LNB

Simultaneous reception of Circular & Linear Satellites at the same orbital position

2 Outputs Linear polarized (V&H) switched / 2 outputs Circular polarized (LHC & RHC) switched

QPH-031		
1. Input Frequency	FSS Band (Linear Polarization) GHz	11.7 - 12.2
	BSS Band (Circular Polarization) GHz	12.2 - 12.7
2. Output Frequency	FSS Band MHz	950-1450
	BSS Band MHz	950-1450
3. Noise Figures		0.3 dB typ
4. Gain		50 - 60 dB
5. Gain Ripple	26 MHz bandwidth 0.5 dB	<+/-
	CP band dB typ	<5
	LP Band dB typ	<5
6. Local Oscillator Frequency	Low GHz	10.75
	High GHz	11.25
7. Local Oscillator Phase Noise (typ)	1 kHz dBc/Hz	-65
	10 kHz dBc/Hz	-95
	100 kHz dBc/Hz	-110
8. Local Oscillator stability		+/-1 MHz typ
9. Current Consumption	One Receiver typ	Less than 100 mA
	Each Additional Receiver typ	5mA
10. Image Rejection		>40 dB
11. Isolation:	LP Cross Polar Isolation dB	>30
	CP Cross Polar Isolation dB	>23
12. Two tone 3rd Order intercept point (output)		>10 dBm

13. Output Connector	4 x female F-type	
	Impedance Ohm	75
	Return Loss	>10 dB
14. Operating & Storage Temperature Range	-40°C to +70° C	
15. Band Polarization Selection Signals applied to F-type connectors	Ports 1 & 3 Linear Polarization	Vertical 11.5 V to 14 V
	Ports 2 & 4 Circular Polarization	Right hand CP 11.5V to 14V
		Left hand CP 15.5V to 19V
16. Spurious:	Primarily 1000 MHz & 500 Mhz	<-65 dBm
17. Output Gain Difference (between the outputs of 26MHz bandwidth)	<6 dB	
18. QPF-031 Interface QPH-031	18.5 mm ØWaveguide, C120 Flange	
	Offset parabola matched, F/D 0.65 Frequency compensated Feed Horn, 40 mm Dish Clamp	