# **UNIVERSAL QUAD LNB**

## **4 Fully Switched Output Universal LNB**







### **QDH-031**

#### **Input Frequency** 10.7 - 11.7 GHz **Low Band High Band** 11.7 - 12.75 GHz **Output Frequency Low Band** 950 - 2150 MHz **High Band** 950 - 2150 MHz Noise Figure QDF-031, QDH-031 0.3 dB typ QDH-051 0.5 dB typ Gain 50 - 60 dB Gain Ripple 26 MHz bandwidth <+/- 0.5 dB **Low Band** <5 dB typ **High Band** <5 dB typ **Local Oscillator Frequency** 9.75 GHz 10.6 GHz High 7 Local Oscillator Phase Noise (typ) -65 dBc/Hz 10kHz -95 dBc/Hz 100kHz -110 dBc/Hz Local Oscillator stability +/-1 MHz typ (including Setting, aging and +/-3 MHz max temperature drift **Current Consumption** One Receiver 200mA typ **Each Additional Receiver** 30mA typ (When connected to more than one receiver the overall current will be shared between all Receivers)

10 Image Rejection

### **QDF-031**

11	Isolation Cross Polar Isolation High to Low Band Isolation		> 30 dB typ > 30 dB typ
12	Two Tone 3rd Order intercept point (out	tput)	>15 dBm
13	Output Connector Impedance Return Loss	4x fem	75 Ohm 710 dB
14	Operating Temperature Range Storage Temp Range		0°C to +70°C 0°C to +70°C
15	Band Polarization Selection Signals applied to F-type connector		
	Vertical Polarization Selection Horizontal Polarization Selection	11.5V to 14V 15.5V to 19V	
	High Band Selection (22kHz tone) Frequency ( square wave with controlle rise/fall transition time) Level Transition time Duty Cycle Load Impedance at 22kHz Low Band Selection	18 k	Hz to 26 kHz pp to 0.8 Vpp 5µS to 15µs 40% to 60% >70 Ohm No tone
16	In Band Spurious (primarily 1700MHz)		<-65 dBm
17	Out of Band Spurious (primarily 850MH	z)	<-45 dBm
18	Output Gain Difference ( between the outputs in 26MHz Bandwi	dth )	<6 dB

18 QDF-031 Interface

>40 dB

QDH-031,QDH-051

18.5mm Ø Waveguide, C120 Flange

Frequency Compensated Feed Horn,

Off-set Parabola Matched,

40mm Dish Clamp.