UNIVERSAL QUAD LNB

4 Fully Switched Output Universal LNB





QDH-031

Input Frequency Low Band 10.7 - 11.7 GHz **High Band** 11.7 - 12.75 GHz **Output Frequency** 950 - 2150 MHz Low Band **High Band** 950 - 2150 MHz **Noise Figure** QDF-031, QDH-031 0.3 dB typ Gain 50 - 60 dB Gain Ripple 26 MHz bandwidth <+/- 0.5 dB <5 dB typ Low Band **High Band** <5 dB typ **Local Oscillator Frequency** Low 9.75 GHz High 10.6 GHz Local Oscillator Phase Noise (typ) 1kHz -65 dBc/Hz 10kHz -95 dBc/Hz 100kHz -110 dBc/Hz **Local Oscillator stability** (including Setting, aging and +/-1 MHz typ temperature drift +/-3 MHz max **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 >40 dB

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 (ou	tput)	>15 dBm
13	Output Connector Impedance Return Loss	4x fem	ale F-Type 75 Ohm >10 dB
14	Operating Temperature Range Storage Temp Range		°C to +70°C °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 controller rise/fall transition time) Level Transition time Duty Cycle Load Impedance at 22kHz Low Band Selection	18 k	Hz to 26 kHz op 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	lz)	<-45 dBm
18	Output Gain Difference (between the outputs in 26MHz Bandw	idth)	<6 dB

18 QDF-031 Interface

QDH-031,QDH-051

18.5mm Ø Waveguide, C120 Flange

Frequency Compensated Feed Horn,

Off-set Parabola Matched,

40mm Dish Clamp.