

Universal Quad LNB

4 Fully Switched Output Universal LNB



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completing the picture



QDH - 031



QDF - 031

The Quad Universal LNB provides 4 fully switched outputs, ideal for weak signal areas. The **QDH** has a 40mm diameter collar to suit standard offset dishes, whilst the **QDF** (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		10. Image Rejection	>40 dB
Low Band	10.7 - 11.7 GHz	11. Isolation	
High Band	11.7 - 12.75 GHz	Cross Polar Isolation	>30 dB
<hr/>		High to Low Band Isolation	>30 dB
2. Output Frequency		12. Two-tone 3rd Order Interception Point (output)	>15 dB
Low Band	950 - 2150 MHz	13. Output Connector	4 x Female F-type
High Band	950 - 2150 MHz	Impedance	75 Ohm
<hr/>		Return Loss	>10 dB
3. Noise Figure		14. Operating Temperature Range	-40°C to +70°C
QDF - 031, QDH - 031,	0.3 dB typ	Storage Temperature Range	-40°C to +70°C
QDH-051	0.5 dB typ	<hr/>	
<hr/>		15. Band Polarization Selection	
4. Gain	50 - 60 dB	Signals applied to F-type connector	
<hr/>		Vertical Polarization Selection	11.5V to 14V
5. Gain Ripple		Horizontal Polarization Selection	15.5V to 19V
26 MHz bandwidth	<+/- 0.5 dB	High Band Selection (22kHz tone)	
Low Band	<5 dB typ	Frequency (square wave controlled	
High Band	<5 dB typ	rise/fall transition time)	18 kHz to 26 kHz
<hr/>		Level	0.4 Vpp to 0.8 Vpp
6. Local Oscillator Frequency		Transition time	5µS to 15µS
Low Band	9.75 GHz	Duty Cycle	40% to 60%
High Band	10.6 GHz	Load Impedance at 22kHz	>70 Ohm
<hr/>		Low Band Selection	No tone
7. Local Oscillator Phase Noise (typ)		16. In band Spurious (primarily 1700 MHz)	<-65 dBm
1 kHz	-65 dBc/Hz	<hr/>	
10 kHz	-95 dBc/Hz	17. Out of Band Spurious (primarily 850 MHz)	<-45 dBm
100 kHz	-110 dBc/Hz	<hr/>	
<hr/>		18. Output Gain Difference	
8. Local Oscillator Stability		(between the outputs in 26MHz Bandwidth)	<-6 dB
(including setting, aging	+/- 1 MHz typ	<hr/>	
and temperature drift)	+/- 5 MHz max	19. QDF - 031 Interface	18.5mm Ø Waveguide, C120 Flange
<hr/>		QDH - 031, QDH-051	Off-set Parabola Matched, Frequency
9. Current Consumption	200mA typ		Compensated Feed Horn,
One receiver	30mA typ		40mm Dish Clamp
Each Additional Receiver (when connected to			
more than one receiver the overall current will			
be shared between all receivers)			