

Universal Single LNB

Fixed Output Universal LNB



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completing the picture



SNH - 031



SNF - 031

The Single Output Universal LNB is ideal for reception in weak signal areas. The SNH has a 40mm diameter collar to suit standard offset dishes, whilst the SNF(C120 flange) is for use with various types of feed horn, commonly fitted to prime focus dishes. Both LNBs are supplied with a gaiter, to create a weather-proof seal on the cable connection.

Specification

1. Input Frequency		10.7 - 11.7 GHz	10. Image Rejection	>40 dB
Low Band		11.7 - 12.75 GHz	11. Isolation	
High Band			Cross Polar Isolation	>30 dB
2. Output Frequency		950 - 2150 MHz	12. Two-tone 3rd Order Interception Point (output)	>15 dB
Low Band		950 - 2150 MHz	13. Output Connector	Female F-type
High Band			Impedance	75 Ohm
3. Noise Figure		0.3 dB typ	Return Loss	>10 dB
4. Gain		50 - 60 dB	14. Operating Temperature Range	-40°C to +70°C
5. Gain Ripple		<+/- 0.5 dB	Storage Temperature Range	-40°C to +70°C
26 MHz bandwidth		<5 dB typ	15. Band Polarization Selection	
Low Band		<5 dB typ	Signals applied to F-type connector	
High Band		<5 dB typ	Vertical Polarization Selection	11.5V to 14V
6. Local Oscillator Frequency		9.75 GHz	Horizontal Polarization Selection	15.5V to 19V
Low Band		10.6 GHz	High Band Selection (22kHz tone)	
High Band			Frequency (square wave controlled	
7. Local Oscillator Phase Noise (typ)			rise/fall transition time)	18 kHz to 26 kHz
1 kHz		-65 dBc/Hz	Level	0.4 Vpp to 0.8 Vpp
10 kHz		-95 dBc/Hz	Transition time	5µS to 15µS
100 kHz		-110 dBc/Hz	Duty Cycle	40% to 60%
8. Local Oscillator Stability			Load Impedance at 22kHz	>70 Ohm
(including setting, aging			Low Band Selection	No tone
and temperature drift)		+/- 1 MHz typ	16. SNF - 031 Interface	18.5mm Ø Waveguide, C120 Flange
and temperature drift)		+/- 5 MHz max	SNH - 031	Off-set Parabola Matched, Frequency
9. Current Consumption		105 mA typ		Compensated Feed Horn,
				40mm Dish Clamp