

Universal Single LNB

Fixed Output Universal LNB



global **invacom**
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				12. Two-tone 3rd Order Interception Point (output)	>15 dB
Low Band		950 - 2150 MHz		13. Output Connector	Female F-type
High Band		950 - 2150 MHz		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				Storage Temperature Range	-40°C to +70°C
26 MHz bandwidth		<+/- 0.5 dB		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				Horizontal Polarization Selection	15.5V to 19V
Low Band		9.75 GHz		High Band Selection (22kHz tone)	
High Band		10.6 GHz		Frequency (square wave controlled rise/fall transition time)	18 kHz to 26 kHz
7. Local Oscillator Phase Noise (typ)				Level	0.4 Vpp to 0.8 Vpp
1 kHz		-65 dBc/Hz		Transition time	5µS to 15µS
10 kHz		-95 dBc/Hz		Duty Cycle	40% to 60%
100 kHz		-110 dBc/Hz		Load Impedance at 22kHz	>70 Ohm
8. Local Oscillator Stability				Low Band Selection	No tone
(including setting, aging and temperature drift)		+/- 1 MHz typ		16. SNF - 031 Interface	18.5mm Ø Waveguide, C120 Flange
		+/- 5 MHz max		SNH - 031	Off-set Parabola Matched, Frequency Compensated Feed Horn, 40mm Dish Clamp
9. Current Consumption		105 mA typ			