

UNIVERSAL SINGLE LNB



SNH-031

1	Input Frequency Low Band High Band	10.7 - 11.7 GHz 11.7 - 12.75 GHz
2	Output Frequency Low Band High Band	950 - 2150 MHz 950 - 2150 MHz
3	Noise Figure	0.3 dB typ
4	Gain	50 - 60 dB
5	Gain Ripple 26 MHz bandwidth Low Band High Band	<+/- 0.5 dB <5 dB typ <5 dB typ
6	Local Oscillator Frequency Low High	9.75 GHz 10.6 GHz
7	Local Oscillator Phase Noise (typ) 1kHz 10kHz 100kHz	-65 dBc/Hz -95 dBc/Hz -110 dBc/Hz
8	Local Oscillator stability (including Setting, aging and temperature drift)	+/-1 MHz typ +/-3 MHz max
9	Current Consumption	105mA
10	Image Rejection	>40 dB
11	Isolation Cross Polar Isolation	> 25dB

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12	Two Tone 3rd Order intercept point (output)	>15 dBm
13	Output Connector Impedance Return Loss	female F-Type 75 Ohm >10 dB
14	Operating Temperature Range Storage Temp Range	-40°C to +70°C -40°C to +70°C
15	Band Polarization Selection Signals applied to F-type connector	
	Vertical Polarization Selection	11.5V to 14V
	Horizontal Polarization Selection	15.5V to 19V
	High Band Selection (22kHz tone) Frequency (square wave with controlled rise/fall transition time) Level Transition time Duty Cycle Load Impedance at 22kHz	18 kHz to 26 kHz 0.4 Vpp to 0.8 Vpp 5µS to 15µS 40% to 60% >70 Ohm
	Low Band Selection	No tone
16	SNF-031 Interface SNH-031	18.5mm Ø Waveguide, C120 Flange Off-set Parabola Matched, Frequency Compensated Feed Horn, 40mm Dish Clamp.

Patent Pending

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