

# UNIVERSAL SINGLE LNB



## SNH-031

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

## SNF-031

<b>12</b>	<b>Two Tone 3rd Order intercept point (output)</b>	>15 dBm
<b>13</b>	<b>Output Connector</b> Impedance Return Loss	female F-Type 75 Ohm >10 dB
<b>14</b>	<b>Operating Temperature Range</b> Storage Temp Range	-40°C to +70°C -40°C to +70°C
<b>15</b>	<b>Band Polarization Selection</b> Signals applied to F-type connector	
	Vertical Polarization Selection	11.5V to 14V
	Horizontal Polarization Selection	15.5V to 19V
	<b>High Band Selection (22kHz tone)</b> 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
	<b>Low Band Selection</b>	No tone
<b>16</b>	<b>SNF-031 Interface</b> 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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