

### Introduction:

A satellite band local oscillator (S Band LNB) is an electronic device used in satellite TV receivers to convert the received RF signal frequency to an intermediate frequency. The intermediate frequency (IF) is then further processed by the receiver and translated into a stable frequency for viewing on a television set.

### Advantages of S Band LNB:

1. **Improved Signal Quality:** S-Band LNB is designed to improve the signal quality of satellite TV. It filters out unwanted noise and interference and produces a higher quality signal, delivering a better viewing experience.
2. **Range of Frequency Coverage:** S-Band LNB covers a wide range of frequencies. It operates in the S and C bands (2 to 4 GHz) and provides a better signal-to-noise ratio for viewers.
3. **Durable and Cost-effective:** S-Band LNB is durable and lasts longer compared to traditional LNBs. Its cost-effectiveness makes it a popular choice among users.
4. **Easy Installation:** The installation process of an S-Band LNB is relatively easy.
5. **Compact Size:** S-Band LNB is designed to be compact and lightweight, making it easy to transport and install.

### Outline Drawing



**SLNB-2000**

<b>Parameter</b>	<b>Specification</b>
<b>Input Frequency Range</b>	2200 to 2700 MHz
<b>Lo Frequency</b>	3750MHz
<b>Output Frequency</b>	1050 to 1550 MHz
<b>L.O. Stability</b>	±1.5MHz(-40 °C to +70 °C)
<b>Noise Figure</b>	0.4dB
<b>Conversion Gain</b>	55dB typical.
<b>Gain Flatness</b>	±1 dBm(max)
<b>Input VSWR</b>	2.0:1(max)
<b>Output VSWR</b>	2.0:1(max)
<b>Input Connector</b>	N-Female type
<b>Output Connector</b>	N-Female type
<b>Input / Output Impedance</b>	50Ω
<b>Cross Polar Isolation</b>	20dB(min)
<b>Image Rejection</b>	45 dB (min)
<b>Supply Voltage</b>	12V-24V
<b>Phase Noise</b>	-95dBc/Hz@10kHz(max) 75dBc/Hz@10kHz(max)
<b>Operating Temperature</b>	-40 °C to +70 °C
<b>Storage Temperature</b>	-40 °C to +80 °C
<b>Relative Humidity</b>	0%-95%
<b>Weight</b>	300g