



Blue Tops RF Modules > Multipliers > Low Noise High Frequency Doubler LNHD

Features:

- Ultra-low Phase Noise
- No Conversion Loss
- Integral BPF

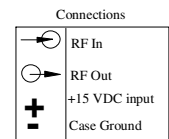
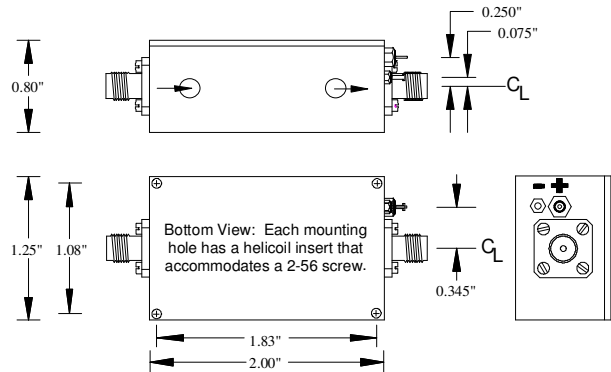
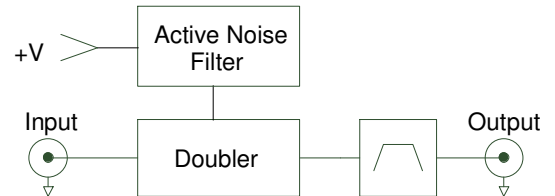
Applications:

- RF Systems Component
- Up Conversion
- System Integration

The LNHD is a fixed-frequency HF doubler based on a public-domain design developed by the National Institute of Standards and Technology (NIST) for superlative phase noise performance. Our unique implementation incorporates an output bandpass filter and specially selected FETs. The intrinsic phase noise is below even the best frequency sources. With a total power consumption of only 30 mA, the LNHD is particularly useful in HF X2 multiplication applications where power is limited. Custom connector sex allows for direct connection with other Blue Tops, saving the cost of a cable.



Typical Specifications:	Output to 30 MHz
Input Signal Level	+10 to +15 dBm
Conversion Loss	0 dB
Phase Noise (Input Referred)	
5 MHz Model: 10 Hz	-155 dBc/Hz
Noise Floor	-178 dBc/Hz
Frequency	5 to 30 MHz
Harmonics	<-30 dBc
Sub-Harmonics	<-45 dBc
Supply Voltage	+15 VDC
Current	30 mA
Dimensions	2 x 1.25 x 0.8"
Connectors	
Power	Feed-thru Capacitor
Ground	Turret Terminal
RF Input / Output	Female SMA
CUSTOM OPTIONS	
<i>Please specify when ordering</i>	
<i>Your Custom Requirements</i>	



Ordering Information: LNHD - F - I

