



## Blue Tops RF Modules > Multipliers > Low Noise Odd-Order Multiplier LNOM

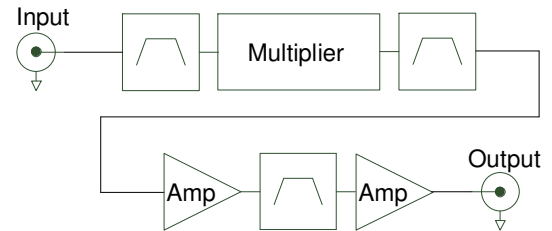
### Features:

- Ultra Low Phase Noise
- Low Conversion Loss
- Outputs to 1 GHz
- Integral BPFs and Amps

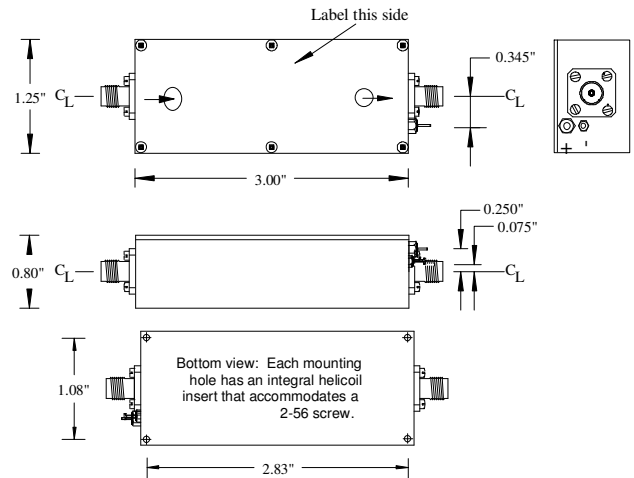
### Applications:

- RF Systems Component
- Up Conversion
- System Integration

The LNOM is an odd-order fixed frequency multiplier utilizing a proprietary Schottky diode topology to achieve exceptionally low phase noise and excellent conversion efficiency. Multiplication factors of 3, 5, 7, 9 and 11 with output frequencies to 1 GHz are available. Multi-section bandpass filters at the input and output effectively control undesired harmonics and multiplication products. The input referred phase noise floor is typically -174 dBc and close-in phase noise is unusually low, particularly on lower frequency units. A representative 5 MHz to 35 MHz unit exhibits an input-referred phase noise of only -164 dBc at 100 Hz offset. Integral amplifiers provide near unity gain. Custom connector sex allows for direct connection with other Blue Tops, saving the cost of a cable. Please consult our technical staff for assistance in configuring a multiplier to suit your input and output requirements.



Typical Specifications:	Outputs To 1 GHz
<b>Input Frequency</b>	5 to 300 MHz
<b>Input Signal Level (Minimum)</b>	+10 to +15 dBm
<b>Conversion Loss</b>	-5 to +5 dB
<b>Phase Noise (Input Referred)</b>	-174 dBc/Hz
<b>Output Level</b>	To +20 dBm
<b>Frequency</b>	To 1 GHz
<b>Harmonics</b>	<-25 dBc
<b>Sub-Harmonics</b>	<-50 dBc
<b>Supply Voltage</b>	+15 VDC
<b>Current Max.</b>	200 mA
<b>Dimensions</b>	3 x 1.25 x 0.8"
<b>Connectors</b>	SMA
<b>Multiplication Factor</b>	<b>Max Input Frequency</b>
X3, X5, X7, X9, X11	300, 200, 100, 50, 10 MHz
<b>CUSTOM OPTIONS</b>	Specialty Connectors
Please specify when ordering	



### Ordering Information: LNOM - F - M - I - O - A1 - A2

