



Blue Tops RF Modules > Multipliers > Low Noise Odd and Even Multiplier LNOEM

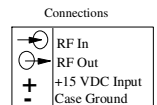
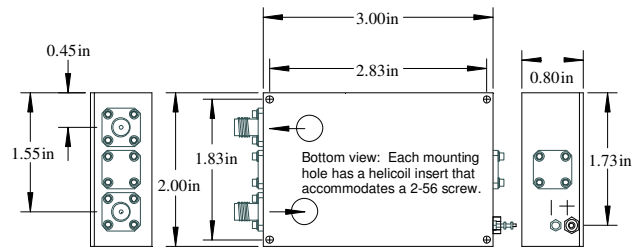
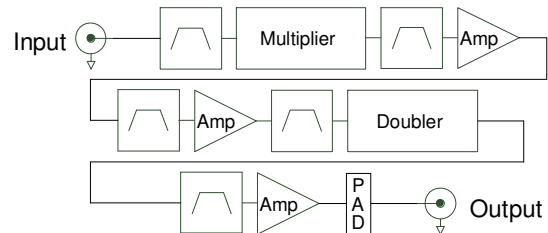
Features:

- Ultra Low Phase Noise
- Low Conversion Loss
- Outputs to 2 GHz
- Integral BPFs and Amps

Applications:

- RF Systems Component
- Up Conversion
- System Integration

The LNOEM is a low noise odd and even frequency multiplier utilizing a proprietary Schottky diode topology and a Watkins-Johnson FD25 diode doubler to achieve exceptionally low phase noise and excellent conversion efficiency. The module is essentially an LNOM and LNDD Blue Tops Module integrated together into one package. Multiplication factors of 6, 10, 14, and 18 with output frequencies to 1.8 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. 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: | To 2 GHz |
|------------------------------|------------------------|
| Input Frequency | 10 to 300 MHz |
| Input Signal Level (Minimum) | +10 to +17 dBm |
| Noise Floor (Input Referred) | -174 dBc/Hz |
| Output Level | TBD (Consult Factory) |
| Harmonics | <-25 dBc |
| Sub-Harmonics | <-40 dBc, x6, x10, x14 |
| | <-30 dBc, x18 |
| Spurious | <-70 dBc |
| Supply Voltage | +15 VDC, 300 mA max. |
| Dimensions | 3 x 2 x 0.8" |
| Multiplication Factor | X6, Up to 300 MHz |
| | X10, Up to 200 MHz |
| | X14, Up to 15 MHz |
| | X18, Up to 10 MHz |
| Connectors | RF SMA Standard |
| | RF TNC, BNC Optional |
| Power | Feed-thru Capacitor |
| Ground | Turret Terminal |

Ordering Information:

