

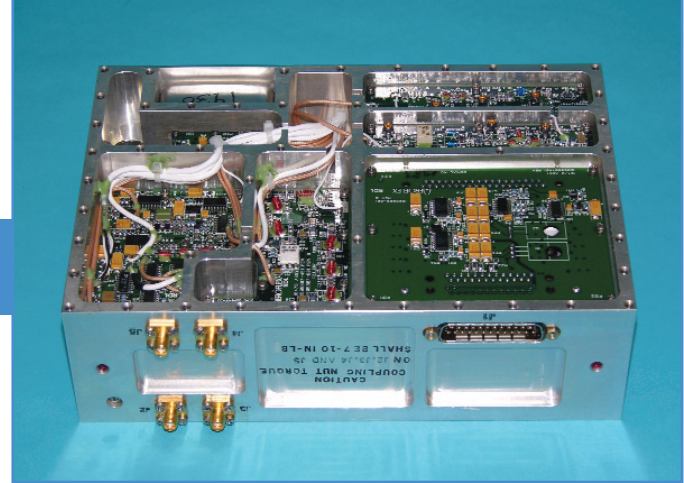
Frequency Multiplier Oscillator (FMO)

SPECTRUM MICROWAVE

The Frequency Multiplier Oscillator (FMO) is a compact 21 channel synthesized signal generator that provides transmit and LO signals for L-band and S-Band airborne radar systems. This design incorporates a unique isolation system for exceptional phase noise performance during vibration.

Typical Performance Characteristics

- 21 Transmit channels
- 21 first LO channels
- 195 MHz fixed second LO.
- 5 MHz fixed third LO
- 5 MHz differential TTL processors clock
- All signals are coherent to an internal reference
- Frequency accuracy +/- 0.3 PPM after an 8 minute warm-up
- Residual FM noise measured 100%
- Biphase modulation on transmit and first LO
- Output Power 27 dBm min
- Output Frequency "L" through "S" Band
- Frequency Switching Time <50 ms



This ruggedized design has successfully passed environmental qualification for Temperature-Altitude, Humidity, Salt Fog, Vibration, Acoustical Noise, and Shock Testing. Interested parties should contact the factory directly for exact levels and conditions used for environmental test.

