

CUSTOM RF SYNTHESIZERS: 5 MHz to 6 GHz

FREQUENCY SOURCES FOR MILITARY & COMMERCIAL APPLICATIONS

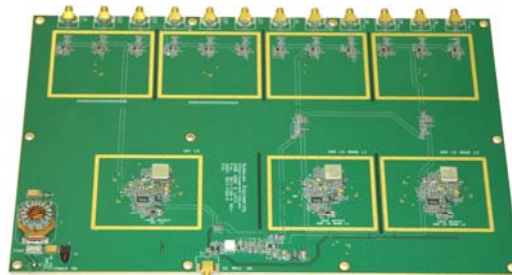


RF & Wireless Engineering

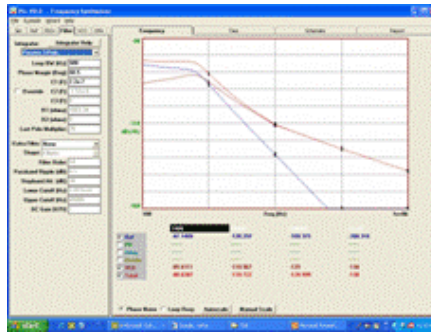
DESIGN FEATURES

- Miniature Form Factors
- Low Frequency Step Sizes
- Low Spurious
- Low Phase Noise
- FSK and FM Modulations
- Multiple Channel
- Wide Frequency Range
- Insensitive to Power Supply Noise
- DDS Solutions Available
- Quick Settling Times
- Low Power Designs
- High Reverse Isolation
- Low Harmonics
- Multiple Synthesized Outputs
- Excellent Reliability
- Spectrally Pure
- References selectable between Internal and External

MODELING, PROTOTYPING, AND MANUFACTURING



Custom Design Example:
6-Channel 112.5 MHz Synthesizer
3-Channel 1435.5 MHz Synthesizer
3-Channel 1087.5 MHz Synthesizer



Detailed Modeling and Simulation of Phase Noise, Lock-Up Time, and Other Design Parameters

Applications:

- Robust Signal Sources
- Up / Down converters
- Communications Suites
- Clock Generators
- Local Oscillators
- Modulators
- Tone Generators
- Frequency Conversions

RADIO FREQUENCY SYNTHESIZER SOLUTIONS

NuWaves provides state-of-the-art RF design services to commercial, industrial, and military customers.

NuWaves' extensive experience with both RF receivers and transmitters is directly applicable to developing custom radio frequency synthesizer solutions. First rate synthesizer designs are embedded in several of our customer's products for both commercial and military applications. Using state-of-the-art design and analysis tools, NuWaves is able to deliver custom solutions in short time frames. Our synthesizer designs include multiple band, multi-channel high isolation, spectrally pure, and low phase noise solutions.

Integration into customer's product is quite simple - NuWaves provides either a module, a reference design, or a circuit card assembly. Contact NuWaves for a quote on your RF synthesizer requirements.

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