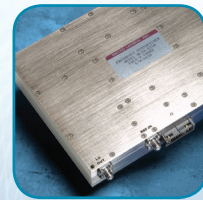


2017 Frequency Synthesizers



MicroLambda Wireless

Frequency Synthesizers 600 MHz to 33 GHz

Micro Lambda Wireless offers a very extensive frequency synthesizer product line with standard designs covering from 600 MHz to 33 GHz. From wideband configurations that out perform some test equipment, Micro Lambda leads the market in YIG-Based synthesizers today. Our standard product offerings include configurations covering the 2-16 GHz range in 2 or 8 GHz tuning ranges with as low as 1 kHz step size, narrow band multi-loop configurations covering the 2 to 16 GHz frequency range with 2 to 4 GHz tuning bands and low phase noise performance, wide band multi-loop configurations covering 600 MHz to 3 GHz and 2-10 GHz with 1 Hz step size and 2 to 20 GHz low noise PXI based units with 1 kHz step size. This product guide is a quick “snap shot” of what is currently offered in our extensive synthesizer product line. For more detailed synthesizer specifications and new products, visit our web-site at www.microlambdawireless.com

2-20 GHz Synthesizer Test Box

MLBS-Series



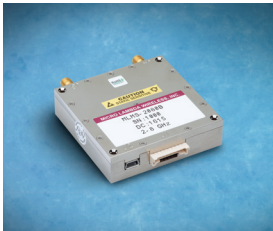
MLBS Series Bench Test Synthesizers are available covering 2 GHz to 20 GHz. They are ideal for production test sets, lab tests and test equipment racks where generation of microwave signals are essential. Units are simply plugged into a standard electrical outlet and you are ready to go.

Standard models cover the 2-8 GHz, 8 to 20 GHz and 2 to 20 GHz frequency bands. All versions of the MLSP synthesizer family can be easily inserted into the test box. Tuning consists of a control knob, key pad, USB and Ethernet connections. Units provide +10 dBm to +13 dBm output power levels and are specified over the lab environment of +15°C to +55°C and are CE certified.

Units are provided with a power cord, USB cable, Ethernet cable, CD incorporating a user manual, quick start guide and PC interface software. All units are “Labview” compatible.

600 MHz to 32 GHz Single Slot PXI Low Noise Frequency Synthesizers

MLMS-Series



Frequency ranges of .6-2.5 GHz, 2-8 GHz, 6-13 GHz, and 8-16 GHz are standard in the product family. Special frequency ranges can be specified by the user. Units can be provided with internal, external or both crystal oscillator references. 1 KHz frequency resolution is standard. Fullband tuning speeds of 5-6ms are standard. +10 to +13 dBm power levels are provided depending on frequency. Control is via 5 line SPI or standard USB. Size is 2.5" x 2.5" x either .50" or .65" tall.

Options include:

- Customer specified output frequency ranges
- Special RF Reference Input frequencies available covering 1–200 MHz
- USB frequency control
- Frequencies to 32 GHz using doublers.

600 MHz-33 GHz PXI and Compact PCI sized Wideband Low Noise Frequency Synthesizers

MLSP-Series



Covering frequency ranges of 600 MHz to 2.5 GHz, 2-8 GHz, 6-18 GHz, 8-20 GHz and 2-20 GHz..

This series of synthesizers reduce the current synthesizer size while also providing low phase noise performance. Units can be provided with internal, external or both crystal references. 1 KHz frequency resolution is standard. Tuning is accomplished via 5 line serial or standard USB control. +8 dBm to +13 dBm RF power levels are provided depending on frequency band with an option for power leveling (-20dB) and/or a fixed level RF output.

Options include:

- Customer specified output frequency ranges
- Special RF Reference Input frequencies available covering 1–200 MHz
- RF connector location (side or front).
- USB frequency control
- Frequencies to 33 GHz using doublers.

600 MHz to 16 GHz Wideband Frequency Synthesizers

MLSW-Series



These frequency synthesizers covering wideband frequencies in the 600 MHz to 16 GHz band, outperform most test equipment signal generators available today. Extremely low phase performance over .6-3 GHz, 2-8 GHz, 2-10 GHz, and 6-13 GHz is available as standard products. Units utilize a 10 MHz external reference and provide

1 Hz frequency resolution. +10 to +12 dBm RF power output levels are provided.

Options include:

- Customer specified output frequency ranges
- Special RF Reference Input Frequencies covering 5-100 MHz
- 1,000 Pre-Set Frequency Points.
- RS-232, 422 & 485 Interface Converters available.

Narrowband Frequency Synthesizers Covering 2-16 GHz for Satcom and Telecom Applications

MLSN-Series



These narrow band synthesizers covering 2 GHz and 3 GHz tuning ranges over the 2-16 GHz frequency range, provide excellent phase noise performance for those difficult frequency converter designs. Units provide 1 Hz frequency resolution while using an industry standard 10 MHz reference input. +13 dBm to +10 dBm is provided depending on frequency band.

Options include:

- Customer specified output frequency ranges
- Special RF Reference Input Frequencies covering 5 -100 MHz.
- 1,000 Pre-Set Frequency Storage Points.
- RS-232, 422 & 485 Interface Converters available.



Micro Lambda Wireless was founded with the purpose of supplying the microwave community with technically superior products at reasonable prices with the highest regard to customer service and quality. Products include YIG oscillators, YIG bandpass & band reject filters, frequency multipliers and frequency synthesizers.

Micro Lambda Wireless is the largest independent supplier of YIG components in the world! Over 20,000 YIG-based components and assemblies delivered annually.

For additional information on Micro Lambda Wireless, please contact the factory or one of our regional sales offices.

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