

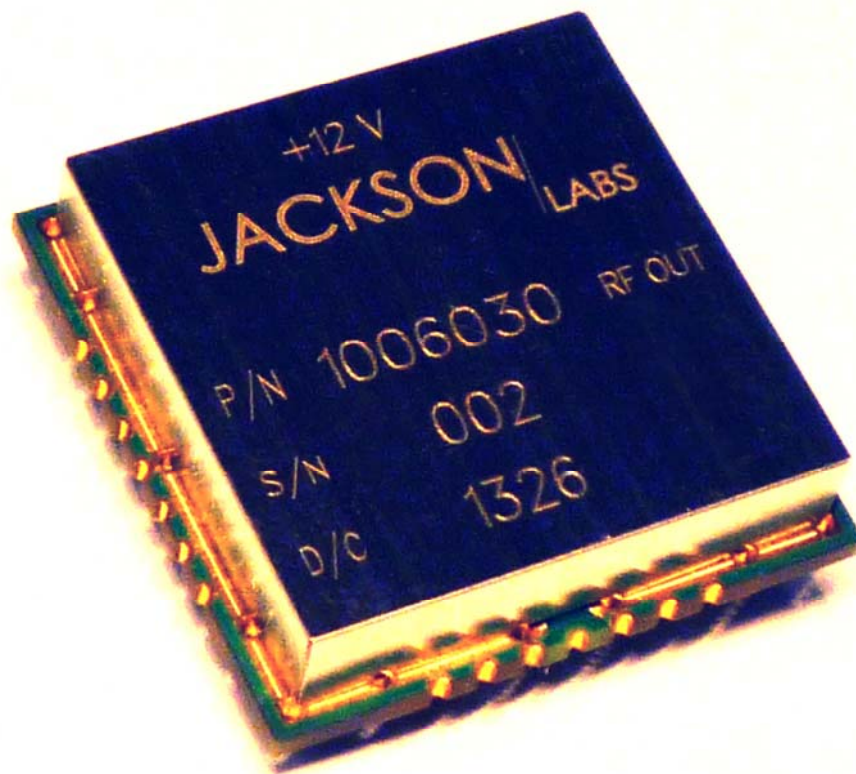


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Jackson Labs Technologies, Inc. delivers small ultra-low phase noise 1GHz Oscillator.

"ULN-1G" is an ultra-low phase noise Local Oscillator for Radar and DDS Applications



Las Vegas, NV., September 9th, 2013 – Jackson Labs Technologies, Inc, a designer and manufacturer of cutting-edge frequency and timing equipment, today announced the availability of its breakthrough product ULN-1G, a 1GHz Ultra Low Phase Noise crystal oscillator. ULN-1G can be ordered with an output frequency range of between 800MHz to 1200MHz and is typically used in Radar Applications where very low phase noise and high output power is of paramount importance. It can also be used as a low-noise/low-jitter reference for modern direct-digital-synthesizer (DDS) applications. The ULN-1G features a typical phase noise of -140dBc/Hz at 10KHz offset, and an exceptional -90dBc/Hz at 100Hz. The unit provides a leveled +22dBm (160mW) output at 1GHz, and consumes less than 1.1W at +12V.



At only 1.3 x 1.3 x 0.38 inches small and surface-mountable, the ULN-1G can operate from +6V to +15V supply voltage, and from -40C to +85C with less than +/-0.5dB output power variation typically. The ULN-1G includes internal harmonic filters and power supply conditioning, as well as an internal leveled high-power amplifier and filter that generates +22dBm output power at 1GHz with harmonics lower than -30dBc/Hz. The unit uses a high-stability crystal oscillator with x8 multiplier topology for superior phase noise and frequency stability when compared to SAW-based VCO products. The ULN-1G is conveniently packaged in an industry-standard SMT compatible surface mount module, and has conformal-coating for resistance to harsh environments. The ULN-1G can also be ordered with an external frequency control (EFC) input for phase locked operation.

Jackson Labs Technologies, Inc. President Said Jackson noted that the ULN-1G is an especially good fit for radar-reference applications: “By using an internal low-noise crystal oscillator and x8 multiplier, the ULN-1G was specifically designed to meet stringent radar applications with very low phase noise, small physical size and weight, and very low power consumption. The high output power of +22dBm with its exceptional stability over temperature- and voltage variations allows a direct drive of typical harmonic comb generators reducing the OEM integrators’ overall system cost and parts count.”

About Jackson Labs Technologies, Inc.:

Located in Las Vegas, NV, Jackson Labs Technologies, Inc. is a privately held company that is setting new standards in timing and frequency generation for the engineering, test & measurement, broadcast, defense, and research markets.

To learn more, visit www.jackson-labs.com.