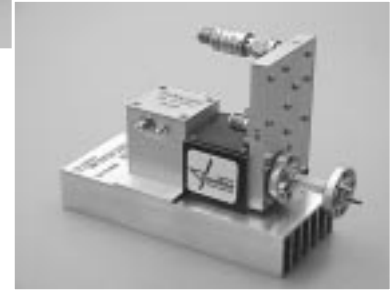




Characteristics

- ◆ Low Phase Noise
- ◆ Internal or External Reference
- ◆ High output capability
- ◆ Compact Outline



Product Description

QuinStar Technology's QPL series of Phase Locked Oscillators are available over the frequency range of 26 to 150 GHz. These sources are produced using one of several possible methods of generating the microwave or millimeter wave power, and phase-locking the source to an appropriate reference oscillator. Depending on the frequency of operation, QuinStar's series QPL Phase-Locked Sources are created using one or more of the following oscillators:

- (a) Microwave GaAsFET or SiGe Device-based Dielectric Resonator Oscillator
- (b) Microwave Voltage Controlled Oscillator
- (c) Microwave Oscillators followed by Active or Passive Frequency Multipliers
- (d) Gunn Diode or IMPATT diode-based Oscillators

Also, phase-locking of the oscillator to a reference source is achieved by employing the most suitable and optimal

technique from a variety of approaches and/or architectures. Each design approach has unique advantages and features that allow QuinStar to provide an optimal Phase-Locked Source for virtually any application.

QuinStar can integrate high power amplifiers to achieve maximum power levels available at a given frequency.

QuinStar's PLO's are available with either internal or external crystal references. Internal crystal oscillator frequencies can range from 5 MHz to 150 MHz. Synthesizers and special-purpose Phase-locked oscillators are also offered as customized products.

These sources can be provided with varying degrees of packaging and integration, ranging from miniature modules to stand-alone Instrumentation-style products with complete power supplies, and in customer-specific outlines.

Ordering Information

