

PhaseLink Corporation Announces 2nd Generation MHz to KHz Clock Oscillator

1.62V to 3.63V Operation, 2ms Start Up Time, Built-in ALC, Lowest Power Consumption, With Smallest Footprint

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PhaseLink Corporation, a leader in frequency source generation and the inventor of the Analog Frequency Multiplier (industry's best performing clock IC), and PicoPLL (world's smallest and lowest power programmable clocks) today announced the availability of the newest member of PhaseLink's PicoXO clock family, the PL610-32, PL610-32A and PL610-33.

PhaseLink's PL610-32 and PL610-33 are fixed versions of the world's smallest, lowest power, and best performing programmable oscillators, the PL610-01, PL610-02, and PL610-03. These ICs are new additions to PhaseLink's programmable and non programmable oscillator family of products. This family offers the smallest die size that comfortably accommodates package cavities as small as 2.0 mmx1.6 mm ceramic module or a 2.0x1.3x0.6mm DFN package, operates on a 1.62V to 3.63V supply range, while offering the lowest power consumption. With its smallest size, PL610-3X family has an uncompromising performance that also supports a built-in Automatic Level Control (ALC) circuit that regulates the crystal drive performance.

"PL610 family solves the tuning fork resonator problems of having a slow start up time and a wide frequency variation of 200 ppm to 300 ppm over industrial temperature range. , said Amir Naghavi, VP of Marketing at PhaseLink Corporation. "With PL610-3X family, the start up time is less than 2ms, and the total frequency drift becomes a more manageable 20~30 ppm over the industrial temperature range of -40 °C to +85 °C."

Unlike a regular tuning fork, the combination of PL610 and a high frequency fundamental crystal fits onto a small industry standard oscillator packaging form-factor of 2x1.6mm to 5x7mm.

PL610 family is ideal for handheld/portable and battery powered applications such as Personal Navigation Devices (PND), Phones/Smart Phones, Mobile Gaming, RF Radios, Bluetooth, or in other consumer electronics applications such as Camcorders, Cameras, Cable boxes, or any application where performance, power, space savings, and cost are of importance.

Product Family Summary:

Part Number	Input (MHz)	Output (MHz)	Operating Voltage	Features	Package
PL610-32 PL610-32A	• Fundamental: 16.777216MHz	• 32.768KHz	1.62V~3.63V	<ul style="list-style-type: none"> • 1.62V to 3.63V operation. • Fast start up time. • Very low-power. 	<ul style="list-style-type: none"> • Die (Wirebond or Flip-chip)
PL610-33	• Fundamental: 26.017792MHz	• 32.768KHz	1.62V~3.63V	<ul style="list-style-type: none"> • 1.62V to 3.63V operation. • Fast start up time. • Very low-power. 	<ul style="list-style-type: none"> • Die
PL611s-18	• Fundamental: 10-40MHz	• KHz & MHz	1.62V~3.63V	<ul style="list-style-type: none"> • 1.62V to 3.63V operation. • Fast start up time. • Produces KHz and MHz clocks. 	<ul style="list-style-type: none"> • Die • SOT-6 • DFN-6

Pricing and Availability

The PL610 family of products are available for sampling and production use in die or packaged options. Offered in GREEN/RoHS compliant 6-pin DFN or SOT-23 packages, the PL610 is priced at less than \$0.30 in moderate quantities.

About PhaseLink Corporation

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PhaseLink Corporation is the recognized leader in the mixed signal technology for timing source and signal conditioning ICs, in the area of Communications, Data Storage, Personal Computing, and Consumer Products. An innovator of many first to market products such as Analog Frequency Multipliers, Triangular Modulation SST, PicoPLL (world's smallest programmable clock), PhaseLink is principally focused on providing high performance Frequency timing (XO, VCXO, EMI Reduction, Programmable Clocks, ZDBs, etc.) clock IC solutions.

Additional information and datasheets can be found at www.phaselink.com or by calling 408-571-1668.

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