

PhaseLink Corporation Announces 50 fs Phase Jitter Clock Multiplier The World's best performing XO & VCXO Products

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PhaseLink Corporation, a leader in frequency source generation and the inventor of Analog Frequency Multiplier (industry's best performing XO and VCXO clock multiplier ICs), and PicoPLL (world's smallest and lowest power programmable clocks) today announced the availability of the newest member of PhaseLink's extensive Analog Frequency Multiplier (AFM) clock family, PL565-08.



PhaseLink's Analog Frequency Multiplier (AFM) family is the industry's first 'Balanced Oscillator' utilizing analog multiplication of the fundamental frequency (at double or quadruple frequency), combined with an attenuation of the fundamental of the reference crystal, without the use of a phase-locked loop (PLL), in CMOS technology.

"PL565-08 is another breakthrough from Phaselink. Less than 50 fs phase jitter and 25 ps period jitter at 622.08MHz makes PhaseLink's PL565-08 the world's best performing clock oscillator.", said Amir Naghavi, VP of Marketing, PhaseLink Corporation. "PL565-08 provides unequalled performance in frequency multiplication with the lowest system cost implementation for the high performance markets."

PhaseLink's PL565-08 can achieve up to 800 MHz output frequency with no jitter or phase noise deterioration, when compared to the crystal input. PhaseLink's AFM family support differential LVPECL, LVDS, or in phase LVCMOS outputs. In addition, the low frequency input crystal requirement makes the AFMs the most affordable high-performance timing-source. This high performance VCXO offers an integrated varicap to achieve excellent frequency pulling, with less than 10% linearity.

PL565-08 is available in die or housed in small 3x3 QFN or 16-pin TSSOP GREEN/ RoHS compliant packages for easy placement on space-constrained boards, and supports commercial (0 to +70 degrees C) and industrial (-40 to +85 degrees C) temperature ranges.

PhaseLink's AFM family is designed to address the demanding requirements of high performance applications such SONET/SDH, Fiber Channel, serial ATA, Ethernet, SAN, and other high performance markets etc.

PhaseLink's AFM Product Family Summary:

Part Number	Input Freq Range (MHz)	Xplier Factor	Output Freq. Range (MHz)	Output Type*	Phase Noise at Frequency Offset From Carrier (dBc/Hz)							
					Carrier Freq. (MHz)	10 Hz	100 Hz	1 KHz	10 KHz	100 KHz	1 MHz	10 MHz
VCXO												
PL565-08	75 - 200	4	300 - 800	PECL	622.08	-51	-85	-114	-134	-144	-150	-155
PL560-09	75 - 200	4	300 - 800	LVDS	622.08	-55	-85	-110	-130	-137	-148	-150
PL560-3X	30 - 80	4	120 - 320	P, L, C	155.52	-50	-82	-110	-128	-142	-148	-150
PL560-4X	30 - 80	2	60 - 160	P, L, C	155.52	-65	-95	-122	-138	-142	-148	-149
PL560-6X	75 - 200	2	150 - 400	P, L	311.04	-60	-85	-112	-135	-142	-150	-151
XO												
PL663-0X	30 - 80	2	60 to 160	C, P	156.25	-75	-105	-130	-140	-145	-150	-150
PL663-1X	75 - 140	2	150 to 280	P, L, C	212.5	-70	-100	-130	-140	-145	-148	-148
PL663-2X	140 - 160	2	280 to 320	P, L	311.04	-60	-92	-122	-140	-142	-146	-148

* P=PECL, L=LVDS, C=CMOS. 'X' determines the output type.

Pricing and Availability

The PL565-08 is available for sampling and production use, and is offered in a GREEN/RoHS compliant QFN-16 or TSSOP-16 package, and is priced at \$5.00 in moderate quantities.

Evaluation boards and Gerber files for optimum placement of AFM clock ICs are available from PhaseLink. Additional information and datasheets can be found at www.phaselink.com or by calling 408-571-1668.

About PhaseLink Corporation

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.

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