

AN APPARATUS FOR GENERATING A PLURALITY OF SIGNALS

Abstract

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An apparatus for generating a plurality of signals is provided. The apparatus provided includes a first signal generation unit, including an input receiving a reference signal, and a plurality of outputs providing a first plurality of output signals being generated based on the reference signal, wherein any two of
10 the output signals have a different phase. The apparatus provided further includes a second signal generation unit, including at least two inputs receiving at least two signals selected from the first plurality of output signals generated by the first signal generation unit, and a plurality of outputs providing a second plurality of output signals being generated by interpolating
15 the respective phases of the received at least two signals selected from the first plurality of output signals. The apparatus provided further includes a selection unit, including a first plurality of inputs receiving the first plurality of output signals generated by the first signal generation unit, a second plurality of inputs receiving the second plurality of output signals generated by the
20 second signal generation unit, and a plurality of outputs providing the plurality of signals wherein each of the signals is selected from the first plurality of output signals generated by the first signal generation unit and the second plurality of output signals generated by the second signal generation unit, wherein any two signals of the plurality of signals have a different phase.

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Fig. 2