

11 JUNE 2002

A Feedforward Amplifier Network With Swept Pilot Tone For Reducing Distortion Generated By A Power Amplifier

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Abstract Of The Disclosure

A feedforward amplifier network (42) generates a fixed offset frequency swept pilot tone (46) over at least the same frequency band as an input signal (40). The fixed offset frequency swept pilot tone (46) is a function of a variable frequency reference signal (52) and a fixed pilot tone clock signal (54). A mixer arrangement (66 and 70), as opposed to a phase lock loop arrangement, helps ensure that the fixed frequency offset can be generated over the swept range. In addition, the feedforward amplifier network (42) incorporates a delay (58) which is added to the variable frequency reference signal (52) and used by a pilot tone detector (57) so that the pilot tone generator (44) and pilot tone detector (57) are in synchronization over narrow bands to accommodate pilot tone detection in the presence of code division multiple access channels that are relatively close together.



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