

Abstracts

A New Direct Digital Receiver Performing Coherent PSK Reception

J. Li, R.G. Bosisio and K. Wu. "A New Direct Digital Receiver Performing Coherent PSK Reception." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1007-1010.

Coherent reception provides better CNR performance over its differential counterpart. However, this is generally obtained at the expense of increasing complexity of the receiver and more stringent specifications of circuits. In this paper, we describe a new coherent PSK direct receiver, in which a 'soft' phase reference is established by DSP, while the detection is performed directly at mm-wave frequencies. Both measurements and computer simulations validate the proposed new approach.

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