

Abstracts

A Six-Port Direct Digital Millimeter Wave Receiver

J. Li, R.G. Bosisio and K. Wu. "A Six-Port Direct Digital Millimeter Wave Receiver." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1659-1662.

A novel approach is proposed for direct demodulation of various digitally modulated signals at microwave/millimeter wave frequencies using a six-port phase/frequency discriminator (SPFD). The proposed six-port direct digital receiver is capable of handling PSK and QAM as well as their varieties. Preliminary measurements on demodulation of DBPSK signals at 26.5GHz, 33GHz and 40GHz have revealed great potential of this new receiver.

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