

Abstracts

Novel Monolithic Ultra-Wideband Unilateral 4-Port Junction Using Distributed Amplification Techniques (1992 [MCS])

I.D. Robertson and A.H. Aghvami. "Novel Monolithic Ultra-Wideband Unilateral 4-Port Junction Using Distributed Amplification Techniques (1992 [MCS])." 1992 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 92.1 (1992 [MCS]): 189-192.

A novel active unilateral 4-port junction operating over 1 to 20 GHz has been demonstrated in MMIC technology, using distributed amplifier techniques. The circuit has unique unilateral characteristics with a relatively constant insertion loss and high isolation, and could replace isolators, circulators and directional couplers in many ultra-wideband applications.

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