

Abstracts

Simple Noise Analysis Applied to Power Combiners

A.S. Morris and R.J. Trew. "Simple Noise Analysis Applied to Power Combiners." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1273-1275.

The advent of ultra-low-noise amplification has shifted the emphasis of low-noise design towards passive circuitry. This paper derives simple expressions for the noise parameters for a passive two-port in terms of the scattering matrix and applies them to the problem of design of power combining circuits. Simple guidelines for low-noise combiner design are presented.

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