

Abstracts

180° Lumped Element Hybrid

S.J. Parisi. "180° Lumped Element Hybrid." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1243-1246.

At frequencies below 18 GHz, distributed element hybrids consume too much valuable GaAs real estate to be cost-effective. An appreciable reduction in surface area without a degradation in electrical performance can be realized with the use of lumped element hybrids. This paper describes the design methodology employed in the development of a 180-degree lumped element hybrid. This technique is also applicable to other distributed devices such as the 90-degree branch line hybrid and the Wilkinson power divider.

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