Abstracts

A 2-18 GHz 180 Degree Phase Splitter Network

S.S. Bharj, S.P. Tan and B. Thompson. "A 2-18 GHz 180 Degree Phase Splitter Network." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 959-962.

A 2-18 GHz phase splitter network has been designed and developed to provide two outputs 180° out-of-phase, with a low insertion loss. The network consists of an active 2-20 GHz in-phase power divider, implemented in MMIC, the two outputs of which feed band pass filter networks, which have identical amplitude response but are 180° out-of-phase. The filter network has been modified in a novel fashion to make it MMIC compatible. The network has applications in double balanced mixers, class AB power amplifiers, push-pull amplifiers, etc.

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