Abstracts

Distributed and Lossy Match Active Power Splitters Using Bridged-T Low-Pass Filter Networks

Y. Ito. "Distributed and Lossy Match Active Power Splitters Using Bridged-T Low-Pass Filter Networks." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1089-1092.

Wideband active power splitters using distributed or lossy match amplification have been designed and fabricated in hybrid form. These splitters use a bridged-T low-pass filter network. It provides a variable characteristic impedance without affecting a cutoff frequency, and thus, is powerful in an application to a multi-way power splitting/combining circuit which requires high impedance characteristics. A 2-way distributed active power splitter has achieved a gain of 1.8 ± 0.8 dB and input/output VSWR's of less than 2:1 over 0.5 to 26.5 GHz. A 2-way lossy match active power splitter has shown a loss of 1.3 ± 1.1 dB and input/output VSWR's of less than 2:1 across 0.5 to 26.5 GHz.

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