Abstracts

A novel planar magic-T using microstrip-to-slotline transition

Jeong Phill Kim, Kong Mahn Park and Wee Sang Park. "A novel planar magic-T using microstrip-to-slotline transition." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1295-1298.

Novel microwave planar magic-T suitable for MICs and MMICs is described. It consists of microstrip and slotline T-junctions coupled by microstrip-to-slotline transitions. Since via-hole processing is not encountered, it is especially applicable to multi-layer microwave integrated circuits. A derived equivalent network model is efficiently used to design a double-sided microstrip magic-T. Experimental results showing good amplitude and phase characteristics over an octave operating bandwidth verify the concept of the proposed circuit.

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