

Abstracts

Broadband lumped-element 180-degree hybrids utilizing lattice circuits

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This paper suggests a novel lumped-element 180/spl deg/ hybrid utilizing lattice circuits. The present hybrid possesses a wide-band property differently from ordinary lumped-element hybrids composed of /spl Pi/ or/and T networks. The bandwidth ratio is 2.4 for a regular type and can be increased to 7.13 by adding a lattice type impedance transformer at each port. The validity and usefulness of this idea also are demonstrated by electromagnetic simulation for a uniplanar circuit pattern.

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