

Abstracts

A New Reversible Varactor Frequency Halver/Doubler Device

Z. Nativ. "A New Reversible Varactor Frequency Halver/Doubler Device." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 921-924.

A new reversible varactor frequency Halver/Doubler device is presented for the first time. The design approach is based on the analogy between frequency multipliers and dividers at the same steady state conditions, Hence, the well known design techniques for varactor doublers may be used for designing frequency halvers. Using this method a 8GHz to 4GHz halver was design and built. When reversed, the circuit functions as a doubler.

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