Abstracts

A Printed Circuit Balun for Use with Spiral Antennas

R. Bawer and J.J. Wolfe. "A Printed Circuit Balun for Use with Spiral Antennas." 1960 Transactions on Microwave Theory and Techniques 8.3 (May 1960 [T-MTT]): 319-325.

A novel printed circuit balun is described which is particularly well suited to applications where space is at a premium. The design utilizes unshielded strip transmission line, but is readily adaptable to all of the common printed circuit transmission line techniques. When the balun is housed within the cavity of a spiral antenna, boresight error is virtually eliminated, ellipticity ratios of less than 2 db are maintained over an azimuth angle greater than ± 60°, and the input standing-wave ratio is less than 2:1 over an octave frequency range. Experimental results are given and additional applications are described.

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