Abstracts

Multi-Way Unequal Power Divider Circuits Using Sector-Shaped Planar Components

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In this paper the design of a sector shaped unequal power divider is presented. The design and the method of analysis are extensions of those previously presented for the sector shaped multi-way equal power divider. The initial experimental results for a 4-way power divider show that the power distribution among the output ports can be controlled by suitably locating shorting pins along the radial edges of the sector. Designs with bandwidths greater than 40% (for S/sub 11/ better than -14 dB) have been realized experimentally for a four-way divider with power output at two ports being 4 dB lower than that at the other two ports. The experimental results are in agreement with the theoretically computed values.

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