

Abstracts

Compact Top-Wall Hybrid Junction

E. Hadge. "Compact Top-Wall Hybrid Junction." 1953 Transactions on Microwave Theory and Techniques 1.1 (Mar. 1953 [T-MTT]): 29-30.

Very often in working with a waveguide transmission systems, it is necessary or desirable to couple off from the system a specified amount of the energy for various purposes. A common and practical method of accomplishing this is through the use of directional couplers and waveguide hybrid junctions. The hybrid junction, as used in this discussion, refers to a specialized waveguide directional coupler having the characteristic that when power enters one of its terminals this power divides equally between the two forward output terminals. the object of this paper is to describe briefly a compact, broad-band hybrid junction whose high performance and geometry are noteworthy.

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