

Abstracts

Compact folded line rat-race hybrid couplers

R.K. Settaluri, G. Sundberg, A. Weisshaar and V.K. Tripathi. "Compact folded line rat-race hybrid couplers." 2000 Microwave and Guided Wave Letters 10.2 (Feb. 2000 [MGWL]): 61-63.

A new, compact folded line configuration for rat-race hybrid couplers is proposed. Simple design equations are presented for the single and double C-section folded line structures. The new configuration exhibits a four- to fivefold reduction in footprint as compared to the conventional rat-race configuration. The design is validated both by using the full-wave electromagnetic simulator and with measurement.

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