Abstracts

A Wide-Band 12-GHz 12-Way Planar Power Divider/Combiner (Short Papers)

V.F. Hanna and J. Jumeau. "A Wide-Band 12-GHz 12-Way Planar Power Divider/Combiner (Short Papers)." 1986 Transactions on Microwave Theory and Techniques 34.8 (Aug. 1986 [T-MTT]): 896-897.

A 12-way, low-loss, wide-band planar electrically symmetric hybrid power divider/combiner for the X-band is described. It is a two-stage fork, 12-way hybrid realized completely in microstrip. A circuit design is given to maximize the match and isolation at band center. Over a frequency band of 10-13 GHz, this divider/combiner has an insertion loss of less than 1 dB and an isolation between output ports of better than 17 dB.

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