Abstracts

A novel microstrip ring hybrid incorporating a PBG cell

Kam Man Shum, Quan Xue and Chi Hou Chan. "A novel microstrip ring hybrid incorporating a PBG cell." 2001 Microwave and Wireless Components Letters 11.6 (Jun. 2001 [MWCL]): 258-260.

An experimental investigation of a novel compact microstrip 180/spl deg/ ring hybrid incorporating a one-dimensional (1-D) slow-wave structure, in the form of perforations on the ring itself, is presented. The size of the hybrid is reduced by 23% due to the slow-wave effect, and this size reduction technique has potential applications in MICs and MMICs. The measured insertion loss is comparable to that of a conventional microstrip hybrid.

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