Abstracts

Coupling suppression in microstrip lines using a bi-periodically perforated ground plane

K.M.K.H. Leong, A.C. Guyette, B. Elamaran, W.A. Shiroma and T. Itoh. "Coupling suppression in microstrip lines using a bi-periodically perforated ground plane." 2002 Microwave and Wireless Components Letters 12.5 (May 2002 [MWCL]): 169-171.

A perforated ground plane is used to suppress the coupling between adjacent and intersecting transmission lines. Experimental results indicate 40-dB suppression of broadside coupling between two adjacent 50-/spl Omega/ lines. A new option in the design of circuit routing schemes is proposed by demonstrating 28-dB coupling reduction between two intersecting 50-/spl Omega/ lines.

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