

Abstracts

S-band reflection type variable attenuator

C.R. Trent and T.M. Weller. "S-band reflection type variable attenuator." 2002 Microwave and Wireless Components Letters 12.7 (Jul. 2002 [MWCL]): 243-245.

A reflection type variable attenuator is described in this letter. The main component of the circuit is a microstrip 3 dB quadrature coupler. The coupler is used in conjunction with two varactor diodes to vary the attenuation from 2.2 dB to 17 dB over a 40% bandwidth (2.8-4.2 GHz). If married with a programmable voltage controller, the proposed design will provide a low-cost solution for applications with narrow instantaneous bandwidth.

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