

Abstracts

Pin Diode Single-Sideband Modulator

R.V. Garver. "Pin Diode Single-Sideband Modulator." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 235-238.

A reflection-type single-sideband modulator is described that uses two PIN diodes separated by $\lambda/8$. The modulator can give satisfactory suppression of undesired sidebands in a noncritical circuit, and computer simulations indicate that 20-dB suppression of the unwanted sidebands can be obtained over an octave bandwidth. It can provide even wider bandwidths when conventional C-section differential phase shifters are used.

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