

Abstracts

A Low Noise Broadband Ka-Band Waveguide Mixer

L.T. Yuan. "A Low Noise Broadband Ka-Band Waveguide Mixer." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 272-273.

A Ka-band waveguide double-balanced mixer is described which has low noise and broadband performance. A double sideband noise figure of 5.9 dB was achieved. The mixer is capable of operation over a frequency range from 26 to 40 GHz. A unique mixer configuration for achieving double-balanced mixer operation is described. The new mixer configuration simplifies the problems encountered in fabricating a double-balanced waveguide mixer at Ka-band.

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