

Abstracts

A Novel 6 to 18 GHz 180-Degree Bit Phase Shifter Configuration Having Very Small Amplitude and Phase Errors

S.R. Mazumder and R.C. Waterman. "A Novel 6 to 18 GHz 180-Degree Bit Phase Shifter Configuration Having Very Small Amplitude and Phase Errors." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. 1 [MWSYM]): 83-86.

A novel configuration is shown which realizes a near perfect 180-degree bit digital phase shifter performance. The configuration provided amplitude and phase errors of less than ± 0.5 dB and ± 5 degrees respectively over 6 to 18 GHz. When operated as bi-phase (BPSK) modulator, it provided greater than 25 dB of carrier suppression over the wide bandwidth.

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