Abstracts

A Compact Broadband, Six-Bit MMIC Phasor with Integrated Digital Drivers (1990 Vol. I [MWSYM])

C. Moye, G. Sakamoto and M. Brand. "A Compact Broadband, Six-Bit MMIC Phasor with Integrated Digital Drivers (1990 Vol. I [MWSYM])." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 457-460.

Digital and microwave technologies have been successfully combined on a single chip to realize a broadband, 6-bit MMIC phase shifter. It exhibits low insertion loss, good VSWR, and exceptional phase performance with less than 3 degrees RMS phase error for all sixty-four phase states over the entire 7.2-10.2 GHz band. Compared to previous designs, the number of required control lines has been reduced by a factor of two due to the integration of the digital driver circuitry.

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