Abstracts

An Octave Band GaAs Analog Phase Shifter

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A GaAs variable gain analog phase shifter, which operates with high phase and amplitude resolution over an octave band has been demonstrated. The phase shifter, which consists of three GaAs MMIC chips in a hybrid package, exhibits greater than 10db gain and 100mW output power from 400MHz to 1400 MHz, with a phase/amplitude settling time of less than 100 nS. This paper addresses the design of the three MMIC chips contained in the module, and the performance of the module itself.

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