Abstracts

The Use of a Single Source to Drive a Binary Peak Power Multiplier (Short Papers)

P.E. Latham. "The Use of a Single Source to Drive a Binary Peak Power Multiplier (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.5 (May 1989 [T-MTT]): 929-931.

The binary power multiplier (BPM) recently proposed by Farkas requires a pair of RF inputs whose phases are set independently. In this note, a method is presented in which a single source may be used to drive a BPM. Phase coding occurs at the source input, where the power is low and phase switching is straightforward. There is a loss in energy of around 25 percent but only a small reduction in peak power.

❑ Return to main document.