

Abstracts

A 26-MESFET spatial power-combining oscillator

M. Rahman, T. Ivanov and A. Mortazawi. "A 26-MESFET spatial power-combining oscillator." 1997 Microwave and Guided Wave Letters 7.4 (Apr. 1997 [MGWL]): 100-102.

Several spatial power-combining oscillators based on an extended resonance technique was designed and fabricated. Experimental results for these combiners are provided and their performance is compared. An effective isotropic radiated power (EIRP) of 19.9 W at 9.923 GHz was obtained from a 26-MESFET spatial power combiner. The total radiated power for this combiner was 160 mW. The measured and predicted radiation patterns in E- and H-planes are also compared.

 [Return to main document.](#)