

Abstracts

35 GHz Active Aperture

M.F. Durkin, R.J. Eckstein, M.D. Mills, M.S. Stringfellow and R.A. Neidhard. "35 GHz Active Aperture." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 425-427.

Characteristics of a millimeter wave active array are described. Injection-locked pulsed IMPATT oscillators providing 36 watts peak transmitter power are integrated with a stripline-fed image array having a gain of 29 dBi. Performance of the transmitter, antenna and integrated active aperture are discussed.

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