

Abstracts

Guided Wave Optical RF Spectrum Analyzer

D. Mergerian, E.C. Malarkey, R.P. Pautienus, J.C. Bradley, A.L. Kellner and M.D. Mill. "Guided Wave Optical RF Spectrum Analyzer." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 517-519.

The design, fabrication and performance of an integrated optical R.F. spectrum analyzer is described. The device consists of an injection laser, the IO substrate and a photodiode array. It operates over a frequency band-width of 400 MHz centered at 600 MHz and with a complete frame time of 2 μ sec. An R. F. input signal dynamic range in excess of 20 dB has been measured.

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