Abstracts

1x8 Metal-Semiconductor-Metal Photodetector and HEMT Receiver Array with 5 GHz Bandwidth

T. Seniuk, Q.Z. Liu and G.D. Cormack. "1x8 Metal-Semiconductor-Metal Photodetector and HEMT Receiver Array with 5 GHz Bandwidth." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 53-56.

A hybrid integrated three stage HEMT amplifier with a gain of 25 dB and a bandwidth of 5.4 GHz has been designed and constructed. When reconfigurated as an optical receiver by using a linear 1x8 array of GaAs metal-semi-conductormetal photodetectors as the input, 41dB Omega of transimpedance is achieved up to frequencies higher than 5 GHz.

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