

Abstracts

An 8.0 Watt K-Band FET Amplifier for Satellite Downlink

J. Goel, G. Oransky, P. O'Sullivan, S. Yuan, B. Hewitt and P. White. "An 8.0 Watt K-Band FET Amplifier for Satellite Downlink." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 273-275.

An 8.2 Watt FET amplifier with 38.6 ± 0.5 dB gain over 17.7 to 19.1 GHz frequency band has been developed. This amplifier combines the outputs of eight multistage amplifier modules utilizing a radial combiner. This state-of-the-art uower leve has been achieved with a noise fiaure of less than 8.0 dB and AM/PM of less than $2^\circ/\text{dB}$. The third order intermodulation products at 1 dB qain compression were 20 dBc and variation in group delay over the frequency band was less than $\pm.25$ nSec.

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