

GaAs FET Linear Power Amplifiers for 16 QAM Signals at 6 and 11 GHz

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This paper describes design and realisation criteria for linear power amplifiers used in novel 16 QAM radio link systems. The 6.4-7.1 GHz amplifiers use 6 cascaded stages and perform a .9 W mean output power with a 42 dB linear gain and -37 dBc 3rd order IM. The 10.7-11.7 GHz version uses 8 cascaded stages to perform a .5 W mean output power with the same distortion value.

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