Abstracts

A 3.5 Watt High Efficiency GaAs FET Amplifier for Digital Telephone Communications

M. Easton, R. Basset, D.S. Day, C. Hua, C.S. Chang and J. Wei. "A 3.5 Watt High Efficiency GaAs FET Amplifier for Digital Telephone Communications." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1183-1184.

A high efficiency 3.5 watt power module intended for commercial application in the digital cellular telephone market is described. The demonstration circuit is designed to be coupled with a functional gain control circuit or can be a stand alone power stage. The GaAs FET module operates at 6.2 volts, produces 35.5 dBm of output power, 12.5 dB of gain, and 53 % power added efficiency in the 890-920 MHz frequency range.

❑ Return to main document.