

Abstracts

A 0.5-W Complementary AlGaAs-GaAs HBT Push-Pull Amplifier at 10 GHz

H.Q. Tserng, D.G. Hill and T.S. Kim. "A 0.5-W Complementary AlGaAs-GaAs HBT Push-Pull Amplifier at 10 GHz." 1993 Microwave and Guided Wave Letters 3.2 (Feb. 1993 [MGWL]): 45-47.

X-band high-efficiency complementary push-pull amplifiers using P-n-p and N-p-n AlGaAs-GaAs HBT's were demonstrated for the first time. One of the amplifiers achieved an output power of 500 mW with 6-dB gain and 41.8% power-added efficiency at 10 GHz. High efficiency was achieved by Class-B push-pull operation, which also results in second harmonic cancellations.

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