Abstracts

Push-pull power amplifiers in the X band

S. Toyoda. "Push-pull power amplifiers in the X band." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1433-1436.

Two types of class C push-pull power amplifiers for the X band are newly devised. In these amplifiers, tuning type amplifiers are constructed using TE/sub 01/spl delta// mode dielectric resonators, and phase inverting circuits which are necessary at the input and output sides of the push-pull power amplifiers are also constructed using the TE/sub 01/spl delta// mode dielectric resonators. The experiment was performed for the two amplifiers. The operating frequency of the first amplifier was 12.4 GHz, the output power was 37.2 dBm, and the power added efficiency was 75%. For the second amplifier, the operating frequency was 11.2 GHz, the output power was 46 dBm, and the power added efficiency of 77% was attained.

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