Abstracts

C-X Band 14W Power Amplifier Having Flat Gain and Power Response

M. Mochizuki, Y. Itoh, M. Kohno, H. Masuno and T. Takagi. "C-X Band 14W Power Amplifier Having Flat Gain and Power Response." 1993 MTT-S International Microwave Symposium Digest 93.3 (1993 Vol. III [MWSYM]): 1365-1368.

A 5 to 10GHz 14W high power amplifier has been developed. It utilizes a multisection maximally flat impedance transformer whose length is designed to become a quarter wavelength at the highest frequency of the design band to achieve flat gain and flat power response over a wide bandwidth. With the use of this transformer, the amplifier has achieved a linear gain of 7±1dB, a 1dB compressed power of 41.5±0.8dBm, and a power-added efficiency of greater than 25% over 5 to 10GHz.

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