Abstracts

A 20 GHz MMIC Power Module for Transmit Phased Array Applications

C. Yuen, E. Balderrama, W. Findley, L. Kirby, J. Lee and P. Sturzu. "A 20 GHz MMIC Power Module for Transmit Phased Array Applications." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 1163-1166.

A novel high gain, high power, high efficiency and high linearity MMIC power module is developed for a 20 GHz transmit phased array for future communication satellite application. This MMIC module has a maximum gain of 50 dB, a gain range more than 30 dB, an output power of 11 Watt, an efficiency of 18% and a third-order Intermodulation of 17 dBc at 19 GHz, It has a size of 4 5x1.75x0.5", a mass of 100 gm and a DC power consumption of 6.3 Watt.

❑ Return to main document.