

Abstracts

Ultra Small Size X Band MMIC T/R Module for Active Phased Array

T. Sakai, N. Takeuchi, A. Mizobuchi, Y. Iyama and N. Tanino. "Ultra Small Size X Band MMIC T/R Module for Active Phased Array." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1531-1534.

Ultra small size transmit/receive (T/R) module is reported with application to active phased arrays. By the application of GaAs MMIC technique and two storied stack structure, 130 prototype modules have been built each measuring 13 x 16. 5 x 8 mm and weighting 10 grams. The average module transmit power is 1 watt and the receive noise figure is less than 4.7 dB in X band.

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