Abstracts

X-band MMIC power amplifier with an on-chip temperature compensation circuit (2001 Vol. II [MWSYM])

K. Yamauchi, Y. Iyama, M. Yamaguchi, Y. Ikeda and T. Takagi. "X-band MMIC power amplifier with an on-chip temperature compensation circuit (2001 Vol. II [MWSYM])." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1071-1074 vol.2.

An X-band MMIC power amplifier with an on-chip temperature compensation circuit has been presented. The temperature compensation circuit is composed of a diode and a resistor. The compensation circuit is applied to a 4 stage X-band MMIC power amplifier. The gain variation is improved from 5.5 dB to 1.3 dB in the temperature range between -10 degC and +80 degC.

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