

Abstracts

1 watt compact Ka-band MMIC power amplifiers using lumped element matching circuits

M. Komaru, H. Hoshi, H. Kurusu, Y. Notani, T. Katoh, T. Ishida, T. Oku, T. Ishikawa and Y. Mitsui. "1 watt compact Ka-band MMIC power amplifiers using lumped element matching circuits." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1659-1662.

A compact MMIC chip set for Ka-band communication systems has been developed. A two stage power MMIC amplifier using only lumped elements and narrowly spaced lines for the matching circuit delivers 1.44 watt at 30 GHz with a very small die size of 1.94 mm/spl times/2.0 mm. The designing scheme is confirmed to be useful for cost reduction.

[Return to main document.](#)