

Abstracts

A 60 GHz MMIC chipset for 1-Gbit/s wireless links

K. Fujii, M. Adamski, P. Bianco, D. Gunyan, J. Hall, R. Kishimura, C. Lesko, M. Schefer, S. Hessel, H. Morkner and A. Niedzwiecki. "A 60 GHz MMIC chipset for 1-Gbit/s wireless links." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1725-1728 vol.3.

This paper describes the development of a MMIC chipset for 60 GHz; radio links and radars. The chipset includes a low noise amplifier, an image rejection mixer, a frequency quadrupler, and a power amplifier. All were optimized to work together as a 1-Gbit/s radio link in the unlicensed 59 GHz to 64 GHz wireless band, although most are suitable for any application from 55 GHz to 70 GHz. These MMICs are fabricated in Agilent's advanced e-beam PHEMT process and have been demonstrated in fully operational 1-Gbit/s radio-links in field testing.

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