

Abstracts

60 GHz-Band Ultra-Miniature Monolithic T/R Modules for Multimedia Wireless Communication Systems

K. Ohata, T. Inoue, M. Funabashi, A. Inoue, Y. Takimoto, T. Kuwabara, S. Shinozaki, K. Maruhashi, K. Hosoya and H. Nagai. "60 GHz-Band Ultra-Miniature Monolithic T/R Modules for Multimedia Wireless Communication Systems." *1996 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 98. (1996 [MCS]): 111-114.*

60GHz-band ultra-miniature FM/FSK transmitter/receiver modules utilizing a complete MMIC chip set including dielectrically stabilized VCO and local oscillator for wireless LANs and video signal transmission systems are reported. The 0.9cc transmitter module exhibits 11.5MHz/V modulation sensitivity and 10.2dBm output power with -2.8ppm/°C frequency stability. The receiver module has 9.2dB downconversion gain and 5.4dB DSB noise figure.

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