

Abstracts

A 50 GHz MIC Transmitter/Receiver Using a Dielectric Resonator Oscillator

Y. Tokumitsu, M. Ishizaki, T. Saito and E. Matsumoto. "A 50 GHz MIC Transmitter/Receiver Using a Dielectric Resonator Oscillator." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 228-230.

A compact and low cost 50 GHz transmitter/receiver has been developed for a 10.7 Mb/s digital radio system. The output power of the transmitter is 5 dBm. A dielectric resonator is utilized for the 50 GHz oscillator, obtaining a frequency stability of less than ± 100 PPM (0 °C - 50°C).

These circuits are integrated on Fine Grained Alumina FGA) substrates. The size of the transmitter/receiver is 54x48x15 millimeters.

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