

Abstracts

Miniature GPS Translator Module (1995 [MCS])

J. Smuk, P. Katzin, V. Aparin and M. Shifrin. "Miniature GPS Translator Module (1995 [MCS])." 1995 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 95.1 (1995 [MCS]): 149-152.

A GaAs MMIC gain/frequency conversion chip set and its integration into a module which frequency translates the C/A-coded L1 GPS signals to the 2200-2290 MHz telemetry band for use in tracking artillery projectiles is demonstrated. The custom downconverter, upconverter and power amplifier MMICs which form the transmission chain as well as the 36 cm³ module which provides over 125dB of gain with 3dB noise figure, survives firing shock of over 8,000G and operates from 0°C to 70°C are detailed.

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