Abstracts

Ka-Band MMIC-Based Transceiver for Battlefield Combat Identification System

G. Nesbit, T. Dere, D. English, V. Purdy and B. Parrish. "Ka-Band MMIC-Based Transceiver for Battlefield Combat Identification System." 1995 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 95.1 (1995 [MCS]): 53-57.

This paper describes how the MMIC technology is utilized to meet the U.S. Army's need for near term solution in minimizing fratricide in the future engagement. One of the key assembly in the Battlefield Combat Identification System (BCIS) equipment set is the Ka-band MMIC transceiver unit. The MMIC transceiver is used to transmit and receive spread spectrum signal at 38 GHz. The design, integration and test of 13 GaAs MMIC chips in a single hermetically sealed housing (2.5 x 2.3 x 0.4 inches) is presented.

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