Abstracts

A highly integrated T/R module for active phased array antennas

K. Fujii, Y. Hara, Y. Shibuya, T. Sakai and Y. Takano. "A highly integrated T/R module for active phased array antennas." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 77-80.

A highly integrated transmit/receive (T/R) module that has achieved integration levels superior to any MMIC module is described. The highly integrated T/R module is achieved by using LTCC (Low Temperature Co-fired Ceramic) multiple layer substrate, highly integrated MMIC chip-set, large-signal simulation for switching MESFET circuits, high power and high efficiency amplifiers using a PHEMT process, multiple-cavity package, advanced thin-film substrate which enables to realize air bridge structures, and self align like void free MMIC die-bonding technique.

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