Abstracts

Advanced MMIC T/R Module for 6 to 18 GHz Multifunction Arrays (1992 [MCS])

J. Bugeau, W. Coughlin, III, M. Priolo and G. St. Onge. "Advanced MMIC T/R Module for 6 to 18 GHz Multifunction Arrays (1992 [MCS])." 1992 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 92.1 (1992 [MCS]): 119-122.

A high performance 6-18 GHz dual channel MMIC T/R module is presented with significant advances in integration and performance. This advanced module features critical spacing for 2-dimensional arrays, an Aluminum Silicon Carbide housing, multilayer ceramic substrates for RF and control circuitry, a custom hermetic DC multipin connector, new high performance MMIC LNAs and power amplifiers, and specialized multifunction MMIC chips for a reduced parts count. Each of the two channels feature a selectable horizontal and vertical polarization capability. The module is very densely packaged with 2 complete T/R channels occupying 0.97 in^3.

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