Abstracts

An MMIC/MIC-to-Waveguide Transition for Single- and Dual-Polarization Systems

B.D. Geller and A.I. Zaghloul. "An MMIC/MIC-to-Waveguide Transition for Single- and Dual-Polarization Systems." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 412-413.

A simple, low-cost, 20-GHz MMIC/MIC-to-waveguide septum-type transition is described for rectangular, square, or circular waveguides operating in single- or dual-polarization modes. The MMIC is attached to a dielectric substrate surface with a circuit that transforms the waveguide impedance to that of the MMIC. Good insertion loss, return loss, and cross polarization are measured.

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