

The Status of Printed Millimeter-Wave E-Plane Circuits

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The present state of the printed E-plane circuit technology for millimeter-wave integrated circuits is reviewed and trends for the future development in this field are discussed. the general transmission-line properties, types of waveguide housing, discontinuity, and filter problems are discussed in detail. Several circuit components for frequencies between 20 and 170 GHz, such as p-i-n diode attenuators and switches, mixers and detectors, couplers, oscillators, and nonreciprocal devices are examined. Integrated circuit components and subsystems which use these circuits as functional blocks are presented.

 [Return to main document.](#)