Abstracts

E and H-Plane Bends for High-Power Oversized Rectangular Waveguide (1964 [MWSYM])

J.P. Quine. "E and H-Plane Bends for High-Power Oversized Rectangular Waveguide (1964 [MWSYM])." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 138-143.

This paper presents the results of a study of bends for oversized rectangular waveguide having cross-sectional dimensions in the range between 1.5 and 2.5 free-space wavelengths. It is expected that waveguide having these dimensions will be able to transmit 50 to 100 kw of average power at X-band without water cooling. The transmission of at least 5.0 megawatts of peek power at X-band without pressurization is also a design objective.

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