

Abstracts

An Expansion Joint for a Millimeter Waveguide Transmission System

J.W. Carlin and R.J. Colardeau. "An Expansion Joint for a Millimeter Waveguide Transmission System." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 200-202.

An expansion joint for a circular (TE_{sub 01}) waveguide millimeter wave transmission system was fabricated for a 51 mm. diameter guide. The spurious mode level was measured from 50-70 GHz and found to be at least -40dB lower than the incident TE_{sub 01} level. The measured results compared favorably with an analytic prediction of a -50dB or lower spurious mode level from 40-110 GHz.

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