

Abstracts

TE/sub 11/ to TM/sub 11/ Compact Mode Converter for Circular Waveguide

T. ul Haq, K.J. Webb and N.C. Gallagher. "TE/sub 11/ to TM/sub 11/ Compact Mode Converter for Circular Waveguide." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1613-1616.

A compact, low cost, circular waveguide TE/sub 11/ to TM/sub 11/ mode converter has been designed and built using a scattering optimization method. A far field radiation pattern measurement indicates 98.1% of the output power to be in TM/sub 11/, which is very close to the theoretical efficiency of 98.84% for the mode converter,

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