

Abstracts

Circular TE/sub 0n/ Mode Filters for a Guided Millimeter-Wave Transmission (1973 [MWSYM])

K. Hashimoto, S. Shimada and M. Koyama. "Circular TE/sub 0n/ Mode Filters for a Guided Millimeter-Wave Transmission (1973 [MWSYM])." 1973 G-MTT International Microwave Symposium Digest of Technical Papers 73.1 (1973 [MWSYM]): 19-21.

This paper describes theoretical and experimental results of TE/sub 02/ and TE/sub 03/ mode filters for circular waveguides with large diameter. The experimental results show that the TE/sub 01/ insertion loss is less than 0.8 dB for the former and less than 0.4 dB for the latter over the 40 to 80-GHz frequency range. The attenuation loss of the undesired modes is more than 6 dB over the same frequency range for both filters.

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