

# Abstracts

## Hybrid HEM/sub 11 p/ -Mode Dielectric Resonators for Filter Applications at Short Millimeter Wavelengths

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*W. Holpp. "Hybrid HEM/sub 11 p/ -Mode Dielectric Resonators for Filter Applications at Short Millimeter Wavelengths." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 793-796.*

This paper describes the measurement of permittivity and dielectric losses of recently available ceramic materials in the frequency range of 80 to 100 GHz. Design criteria for cylindrical dielectric resonators are given and, subsequently to measuring their characteristic absorption curves, unloaded Q factors are calculated for resonators of different materials and aspect ratios. A short description of a 96 GHz bandpass filter gives an example for a typical application.

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