

CYLINDRICAL RESONATOR WITH METASURFACE AT END-FACE: THEORY AND EXPERIMENT

Theoretical model for resonator eigenmodes $HE_{\pm 11\delta}$ in the cylindrical cavity with ferrite layer on metal end-face in T-wave approximation was developed and compared with experiment. Experimentally obtained effective tuning of $HE_{+11\delta}$ resonance frequency was 0.2 MHz/Oe at ferromagnetic antiresonance frequency, that one order less than typical frequency tuning in ferrite resonators by ferromagnetic resonance.

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