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MINIATURE FRACTAL HTSC MICROSTRIP RESONATOR

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Abstract

The HTSC miniature microstrip resonator in the form of a Hilbert fractal curve was designed, manufactured and tested. The amplitude-frequency characteristics, the values of the resonance frequencies and quality factors for the first five resonant modes are obtained. The comparison with the calculated characteristics for the copper analog was performed. In the context of the two-fluid model, the quality factors frequency dependence of the superconducting resonator, which differs significantly from the copper analog, is explained.

Type of Book of Abstracts

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