Abstracts

A stepped cavity resonator with optimized spurious performance and its applications to BPFs

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To improve spurious characteristics of the dual-mode cavity resonator, the stepped cavity resonator is proposed, and the difference between the fundamental resonant and the spurious resonant frequencies is a 200 MHz improvement seen in the case of stepped cylindrical fundamental band of 1.8 GHz against the conventional cylindrical cavity. These are used in a two-stage BPF, showing an improvement in spurious characteristics.

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