

Abstracts

Ferrite Tuned Millimeter Wave Bandpass Filters with High Off Resonance Isolation

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By combining four hexagonal ferrite spheres under the same magnet structure, magnetically tuneable bandpass filters may be built in waveguide yielding increased off resonance isolation, while keeping insertion loss to a reasonable value. Examples of these filters in A, Q, U, and V bands are presented with typical O.R.I. >70 dB and I.L. <13 dB for full band tuning.

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