

Abstracts

TEM-mode planar dielectric waveguide resonator BPF for W-CDMA

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A low-profile TEM-mode silver-coated $\lambda/4$ high dielectric ($\epsilon_r=93$) planar waveguide resonator having a dimensions of $4.25\lambda/3 \times 3\lambda/1$ (mm) with unloaded quality factor of $Q=240$ have been devised at the resonant frequency of 2 GHz. Two types (with and without attenuation poles at the both sides of the pass band) of low-profile and high performance 2-pole BPFs are designed and fabricated using two such physical resonators, each of which have dimensions of $9\lambda/3 \times 3\lambda/1$ (mm). A precise design procedure is also described.

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