

## 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  $4.25 \times 3 \times 1$  (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  $9 \times 3 \times 1$  (mm). A precise design procedure is also described.

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