

# Abstracts

## A $\lambda/2$ CPW resonator BPF with multiple attenuation poles and its miniaturization

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*K. Wada and I. Awai. "A  $\lambda/2$  CPW resonator BPF with multiple attenuation poles and its miniaturization." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1139-1142 vol.3.*

Very simple method for creating multiple attenuation poles of a bandpass filter (BPF) based on a  $\lambda/2$  coplanar waveguide (CPW) resonator with tap-coupling is proposed, Moreover, miniaturization of the CPW-BPF using a stepped impedance resonator (SIR) is also carried out, As a consequence, the bandpass characteristics with multiple attenuation poles are obtained together with the reduced filter size. The derivation of multiple attenuation poles and a method for reduced filter size are also detailed,.

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