Abstracts

A Bleustein-Gulyaev-Shimizu Wave Resonator Having Resonances for TV and VCR Traps (1996 Vol. II [MWSYM])

M. Kadota, J. Ago and H. Horiuchi. "A Bleustein-Gulyaev-Shimizu Wave Resonator Having Resonances for TV and VCR Traps (1996 Vol. II [MWSYM])." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 401-404.

A Bleustein-Gulyaev-Shimizu (BGS) wave has only a shear horizontal (SH) wave showing a complete reflection at a free edge of a substrate. In this paper, using the responses exited by a weighted interdigital transducer (IDT) and generated by the 2N±2th mode complete reflections at free edges of a ceramic substrate, we realized a new type of BGS resonator having three resonances without reflector electrodes, This resonator showed sufficient trap attenuations for practical use at both adjacent picture carrier frequency (fap) and adjacent sound carrier one (fas) in the TV · VCR VIF (video intermediate frequency) circuit.

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