

Abstracts

A Miniatureized Ceramic Bandpass Filter for Cordless Phone Systems

S. Kobayashi and K. Saito. "A Miniatureized Ceramic Bandpass Filter for Cordless Phone Systems." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 391-394.

Miniaturized band-pass filter, which size is 3.0mm x 2.0mm x 1.5mm, was developed by two different dielectric ceramics with low and high permittivities. The filter was constructed by putting strip line made by high permittivity ceramics ($\epsilon_{\text{sub r}}=75$) between micro strip line made by low permittivity ceramics ($\epsilon_{\text{sub r}}=15$). As its filter characteristics, two attenuation poles were observed at the lower frequency and higher frequency than the pass band. The reason for two attenuation poles' appearances was discussed using by the theoretical equivalent circuit.

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