

ABSTRACT OF THE DISCLOSURE

The voltage-controlled variable-passband filter in accordance with the present invention is structured so that conductive patterns, R, L, and C, and other circuit elements are embedded in a ceramic substrate. Within this substrate is also embedded an insulating layer made of the same ceramic material, the capacitance of which changes in response to an electric field applied thereto. On one surface of the insulating layer is provided a control electrode, and on the other surface are provided adjacent to one another a resonator pattern, to which high-frequency signals are applied, and a ground pattern. Accordingly, two capacitors connected in series are formed between the resonator pattern and the ground pattern, and the capacitance of these series capacitors can be adjusted by an integrated circuit mounted on the ceramic substrate, thus reducing size and weight, and simplifying adjustment.

Figure 1

This Sheet Has Been Replaced

