

RESONANT CIRCUIT ELEMENT
HAVING INSIGNIFICANT MICROPHONIC EFFECTS

5 Abstract of the Disclosure

A rigid, monolithic structure for the resonator elements of a tuned stripline segment which may be adjusted by simple, low cost techniques. The resonator
10 elements use a stripline segment (23,24) made from conductive layers of a multilayer printed circuit board. This structure allows the stripline segment to be totally enclosed in a solid, incompressible dielectric material (15,17) which is essentially immune to microphonic
15 effects. A plurality of shorting holes (21) are fabricated at one end of the stripline which serve to short circuit the stripline segment (23) to the ground conductors (18,19) on the layers above and below the stripline segment (23). Adjustment of the resonant
20 frequency is accomplished by removing the plated conductor inside one of the holes at a time, thus removing the short, until the desired resonant frequency is obtained.

25 Fig. 2 accompanies this abstract.