Abstracts

Small-size delay line based on a periodically loaded waveguide

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A delay line design is proposed which is based on a ceramic-strip loaded, slotted rectangular waveguide. The design combines very small size with moderate bandwidth (5%...10%) and low insertion loss (<0.50 dB/ns at 2 GHz). The delay line employs a periodic structure of coupled resonators and is rather insensitive to manufacturing insensitive to tolerances.

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