

Title (en)
INTEGRATED ELECTRONIC CIRCUIT COMPRISING AN ELECTRONIC COMPONENT AND A DELAY ELEMENT WHICH IS CONNECTED TO THE COMPONENT

Title (de)
INTEGRIERTE ELEKTRONISCHE SCHALTUNG MIT EINEM ELEKTRONISCHEN BAUTEIL UND EINEM MIT DIESEM BAUTEIL VERBUNDENEN VERZÖGERUNGSGLIED

Title (fr)
CIRCUIT INTEGRE ELECTRONIQUE COMPRENANT UN COMPOSANT ELECTRONIQUE ET UN ELEMENT DE TEMPORISATION CONNECTE A UN COMPOSANT

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Application
EP 00925829 A 20000419

Priority
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Abstract (en)
[origin: WO0065714A1] An electronic circuit with at least one active electronic component (10) and a delay element connected to the component. The delay element comprises an electric conductor (13, 18) which is composed of a conductive material on an insulating layer (14) such that the conductor's capacitive coupling to the surrounding becomes low. The conductor (13, 18) is drawn such that its inductance is minimized. The electronic component (10) and conductor (13, 18) are integrated in an integrated circuit. Conductor (13, 18) is drawn in loops of some length, and ground conductor (35) of some length connected to a ground plane is provided between the loops. The delay element can be used in an oscillator coupling or in an electronically controlled antenna. In the oscillator coupling the electronic component (10) comprises an inverter coupling (11) with an input (11) and an output (12). The conductor (13) is provided to connect input (11) to output (12), thus creating an oscillator. The electronically controlled antenna comprises a receiver (17) and a number of antenna elements (16) connected to the receiver (17). Individual antenna elements (16) are connected to the receiver (17) via automatically selectable delay elements (18) such that electric signals from different antenna elements (16) are differentially delayed dependent on the position of the antenna elements in relation to the impinging electromagnetic wave fronts.

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