

Title (en)
RADIOFREQUENCY OR HYPERFREQUENCY MICRO SWITCH STRUCTURE AND METHOD FOR PRODUCING ONE SUCH STRUCTURE

Title (de)
HOCHFREQUENZ- ODER HYPERFREQUENZ-MIKROSCHALTERSTRUKTUR UND VERFAHREN ZUR HERSTELLUNG EINER SOLCHEN STRUKTUR

Title (fr)
STRUCTURE DE MICRO-COMMUTEURS RADIOFREQUENCE OU HYPERFREQUENCE ET PROCEDE DE FABRICATION D'UNE TELLE STRUCTURE

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Application
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Abstract (en)
[origin: WO2007138102A1] The invention relates to a micro switch structure comprising: a substrate (1) covered by a passivation layer (2), a first signal line LS-IN and a second signal line LS-OUT being each located in the extension of the other and separated by a switching region (10); a control electrode (3) arranged in said region, a frequency-invariant dielectric material (4) with high relative permittivity being arranged on the control electrode such that the control electrode is wider on both sides and in the orthogonal direction, between the two signal lines, and the dielectric overlaps on both sides of the control electrode and lies on the passivation layer; and parallel mass lines arranged symmetrically either side of the signal lines and on a topological level separated from that of the signal lines by at least one insulating layer in a material different from that of the passivation layer.

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