

Title (en)

Waveguide switch.

Title (de)

Hohllelerschalter.

Title (fr)

Commutateur de guides d'ondes.

Publication

EP 0399739 A2 19901128 (EN)

Application

EP 90305438 A 19900518

Priority

GB 8911848 A 19890523

Abstract (en)

A pair of conductive strips 9, 10 in a waveguide, for example, defining a fin-line transmission line insert have a switching element such as a PIN diode 11 connected to them to reflect or pass r.f. energy in the fin-line section. The switching element 11 forms part of a filter circuit, for example, in conjunction with inductances 12, 13, the characteristic impedance of which is matched to that of the gap. When the PIN diode is forward biased, the strips 9, 10 are in effect short circuited and the r.f. energy is reflected. When the diode is reverse biased, the r.f. energy passes without reflections. Due to the matching of the impedances this obtains over a broad bandwidth.

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H01P 1/15

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