

Title (en)  
Flexible microwave switch matrix

Title (de)  
Flexible Mikrowellen-Schaltmatrix

Title (fr)  
Matrice hyperfréquence de commutation flexible

Publication  
**EP 1014468 A2 20000628 (EN)**

Application  
**EP 99125180 A 19991217**

Priority  
US 21768198 A 19981221

Abstract (en)  
A planar microwave switch matrix including a plurality of inputs (22) for receiving input signals, a plurality of outputs (26) for transmitting output signals, and a plurality of nodes (20) connecting the inputs to the outputs. Each node (20) includes a switch (30), an input coupler (28) and an output coupler (32). The input and output couplers connecting input lines to output lines such that any input can be connected through a switch to any output. The planar microwave switch matrix is formed on a dual-sided circuit board to form a plurality of co-planar waveguide transmission lines. The layout of the microwave switch matrix allows any combination of input lines and output lines to be connected at a given time, while providing sufficient signal isolation to prevent interference. <IMAGE>

IPC 1-7  
**H01P 1/10**

IPC 8 full level  
**H01H 57/00** (2006.01); **H01H 59/00** (2006.01); **H01P 1/10** (2006.01)

CPC (source: EP)  
**H01P 1/10** (2013.01)

Cited by  
US9622108B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 1014468 A2 20000628**; **EP 1014468 A3 20011107**; CA 2292850 A1 20000621; JP 2000278001 A 20001006

DOCDB simple family (application)  
**EP 99125180 A 19991217**; CA 2292850 A 19991220; JP 36244699 A 19991221