

Title (en)
Active high frequency control element

Title (de)
Aktives Hochfrequenzsteuerelement

Title (fr)
Élément de commande actif à haute fréquence

Publication
EP 0977299 A2 20000202 (DE)

Application
EP 99113897 A 19990716

Priority
DE 19833512 A 19980725

Abstract (en)
An active high frequency control element comprises a control layer of temperature controllable electrical conductivity coupled to a high frequency conductor. An active high frequency control element comprises a high frequency compatible substrate bearing a high frequency conductor structure coupled to a control layer having an electrical conductivity which is controlled by changing its temperature. Preferred Features: The control layer comprises a resistive or electromagnetic radiation heated material exhibiting a semiconducting/metallic phase transition, e.g. VO₂, V₂O₃, NiS, NbO₂, FeSi₂, LaCoO₃, La₂NiO₃, Ti₂O₃, Ti₄O₇, Ti₅O₉ or Fe₃O₄.

Abstract (de)
Die Erfindung betrifft eine aktives HF-Steurelement, mit einem HF-tauglichen Substrat, sowie einer darauf angebrachten HF-Leitungsanordnung; einem auf dem Substrat befindlichen Steuerschicht, deren elektrische Leitfähigkeit durch Temperaturänderung steuerbar ist, wobei die Steuerschicht an mindestens einer Stelle mit der HF-Leitungsanordnung gekoppelt ist, Mittel zur Temperaturänderung der Steuerschicht. <IMAGE>

IPC 1-7
H01P 1/10; **H01P 3/08**; **H01P 5/04**; **H01P 7/08**

IPC 8 full level
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CPC (source: EP)
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