

Title (en)

Integrated microelectronic element for filtering electromagnetic noise and radiofrequency transmission circuit incorporating such an element

Title (de)

Integriertes mikroelektronisches Bauelement für Filterung von elektromagnetischem Rauschen und zugehörige Hochfrequenz-Übertragungsschaltung

Title (fr)

Composant microélectronique intégré pour filtrage du bruit électromagnétique et circuit de transmission radiofréquence le comportant

Publication

EP 1727231 B1 20081231 (FR)

Application

EP 06354015 A 20060504

Priority

FR 0505346 A 20050527

Abstract (en)

[origin: EP1727231A1] The component has an electronic noise filtering circuit comprising a ferromagnetic material e.g. cobalt, layer, where the material has a saturation magnetization value greater than or equal to 800 kilo-amperes per meter. The filtering circuit is constituted by a magnetic circuit (6), enclosing an electric conductor (3). The circuit (6) is formed by the superposition of the layer and a magnetic material layer such that the magnetic layer generates a uniaxial magnetic anisotropy in the ferromagnetic layer. An independent claim is also included for a transmission circuit comprising a microelectronic integrated circuit.

IPC 8 full level

H01P 1/215 (2006.01)

CPC (source: EP US)

H01P 1/215 (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

EP 1727231 A1 20061129; EP 1727231 B1 20081231; DE 602006004501 D1 20090212; FR 2886465 A1 20061201; FR 2886465 B1 20070713; JP 2007006466 A 20070111; JP 4823764 B2 20111124; US 2006290442 A1 20061228; US 7385469 B2 20080610

DOCDB simple family (application)

EP 06354015 A 20060504; DE 602006004501 T 20060504; FR 0505346 A 20050527; JP 2006148819 A 20060529; US 42923906 A 20060508