Title (en)

Microcomponent of microinductance or microtransformer type

Title (de)

Mikrokomponent wie Mikroinduktanz oder Mikrotransformator

Title (fr)

Microcomposant du type micro-inductance ou microtransformateur

Publication

**EP 1168383 A1 20020102 (FR)**

Application

**EP 01420135 A 20010613**

Priority

FR 0008413 A 20000629

Abstract (en)

[origin: JP2002050520A] PROBLEM TO BE SOLVED: To provide an induction microelement, provided with a magnetic core which can act at a specified high frequency. SOLUTION: In this microinductor or an induction microelement (1) such as a microtransformer, a metal winding (2) having a shape of a solenoid and a magnetic core (4) which is positioned at the center of the solenoid (2) are composed of ferromagnetic material are installed. The core (4) is constituted of a plurality of sections (13-16) which are isolated by cutouts (17-19), which are orientated perpendicular to a main axis (20) of the solenoid (2).

Abstract (fr)

Microcomposant inductif (1), tel que micro-inductance ou micro-transformateur, comportant un bobinage métallique (2) ayant la forme d'un solénoïde et un noyau magnétique (4) en un matériau ferromagnétique positionné au centre du solénoïde (2), caractérisé en ce que le noyau (4) est constitué de plusieurs tronçons (13-16) séparés par des découpes (17-19) orientées perpendiculairement à l'axe principal (20) du solénoïde (4). <IMAGE>

IPC 1-7

**H01F 17/00**; H01F 3/14

IPC 8 full level

**H01F 1/14** (2006.01); **H01F 3/14** (2006.01); **H01F 17/00** (2006.01); **H01F 17/04** (2006.01); **H01F 27/245** (2006.01); H01F 27/34 (2006.01)

CPC (source: EP US)

**H01F 3/14** (2013.01 - EP US); **H01F 17/0033** (2013.01 - EP US); H01F 17/0006 (2013.01 - EP US); H01F 27/34 (2013.01 - EP US)

Citation (search report)

- [A] EP 0725407 A1 19960807 - IBM [US]
- [A] EP 0642142 A2 19950308 - PHILIPS ELECTRONICS NV [FR], et al
- [A] DE 2701296 B1 19780420 - PHILIPS PATENTVERWALTUNG
- [A] SHIRAKAWA K ET AL: "THIN FILM CLOTH-STRUCTURED INDUCTOR FOR MAGNETIC INTEGRATED CIRCUIT", IEEE TRANSACTIONS ON MAGNETICS,US,IEEE INC. NEW YORK, vol. 26, no. 5, 1 September 1990 (1990-09-01), pages 2262 - 2264, XP000150520, ISSN: 0018-9464

Cited by

US7642098B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1168383 A1 20020102**; CA 2351790 A1 20011229; FR 2811135 A1 20020104; FR 2811135 B1 20021122; JP 2002050520 A 20020215; US 2002050906 A1 20020502; US 6529110 B2 20030304

DOCDB simple family (application)

**EP 01420135 A 20010613**; CA 2351790 A 20010628; FR 0008413 A 20000629; JP 2001197086 A 20010628; US 87081901 A 20010531