

ABSTRACT

Encapsulated magnetic component

The invention relates to a magnetic component comprising:

- an active portion comprising:

- 5 o a printed circuit extending in a first plane;
- o a first inductive element formed by a first winding of an electrical conductor deposited on the printed circuit;
- o a ferromagnetic core positioned with respect to said first inductive element so as to form a closed magnetic circuit capable of guiding a
10 magnetic field induced by the first inductive element; and

- an encapsulation structure configured to encapsulate the active portion and comprising a housing made of a first material having a first Young's modulus; wherein the housing is filled with a filling resin having a second Young's modulus lower than the first Young's modulus;

15 and the ferromagnetic core is molded in said resin inside said housing so as to separate the ferromagnetic core from said housing.

Figure for the abstract: Fig. 5