Spiral type micro-inductor with CoNiFe core for integrated DC/DC converters

Jean-Pierre LAUR, Monique DILHAN, David BOURRIER, Magali BRUNET, Taoufik EL MASTOULI, Jean-Louis SANCHEZ
Laboratoire d’Analyse et d’Architecture des Système du CNRS
7, avenue du colonel Roche 31077 Toulouse (France)

✓ Validation of a low temperature process allowing a spiral-type micro-inductor fabrication

✓ Optimization of a CoNiFe bath and depositing conditions

◆ Modelling and simulation of the micro-inductor topology to evaluate the high frequency behaviour (core losses, EMI assessment)

◆ Fabrication of a micro-inductor prototype for a specific DC/DC converter in the view of the full integration