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Experimental characterization and equivalent circuit extraction of nanowires for signal integrity applications

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Gicelio ANTONINI¹, Marc Di CLERICO¹, Antonio ORLANDI¹

Vittorio RICCHIUTI², Maurizio PASSACANTANDO³, Sandro SANTUCCI³

¹UAq EMC Laboratory, Dept. of Electrical Engineering, Univ. of L'Aquila, L'Aquila-ITALY

e-mail: antonini@ing.univaq.it, marcodiclerico@virgilio.it, orlandi@ing.univaq.it

²TechnoLabs S.p.A. ss. 17,loc. Boschetto, L'Aquila-ITALY

e-mail: vittorio.ricchiuti@technolabs.it

³Department of Physics, University of L'Aquila, L'Aquila-ITALY

e-mail: sandro.santucci@aquila.infn.it



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[Authors](#)



elektrik@tubitak.gov.tr

Abstract: This paper illustrates the design steps of a printed circuit board used as test vehicles for the measurement of the electrical properties of carbon nanotube's deposit. The board has been built and used for the measurements. The measured data are post-processed in order to extract the required properties of the only nanotubes. An equivalent circuit is extracted for further use in EDA simulators and the IEEE P1597 Standard is used to compare the results.

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