



APPLICATION NOTE

ANTENNAS DESIGN GUIDE

Revision 2
April 2004

Information in this document is subject to change without notice. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of PRO ACTIVE.

APPLICATION NOTE ANTENNAS DESIGN GUIDE



PRO ACTIVE
PARC GUTENBERG
13 VOIE LA CARDON
F-91120 PALAISEAU
France

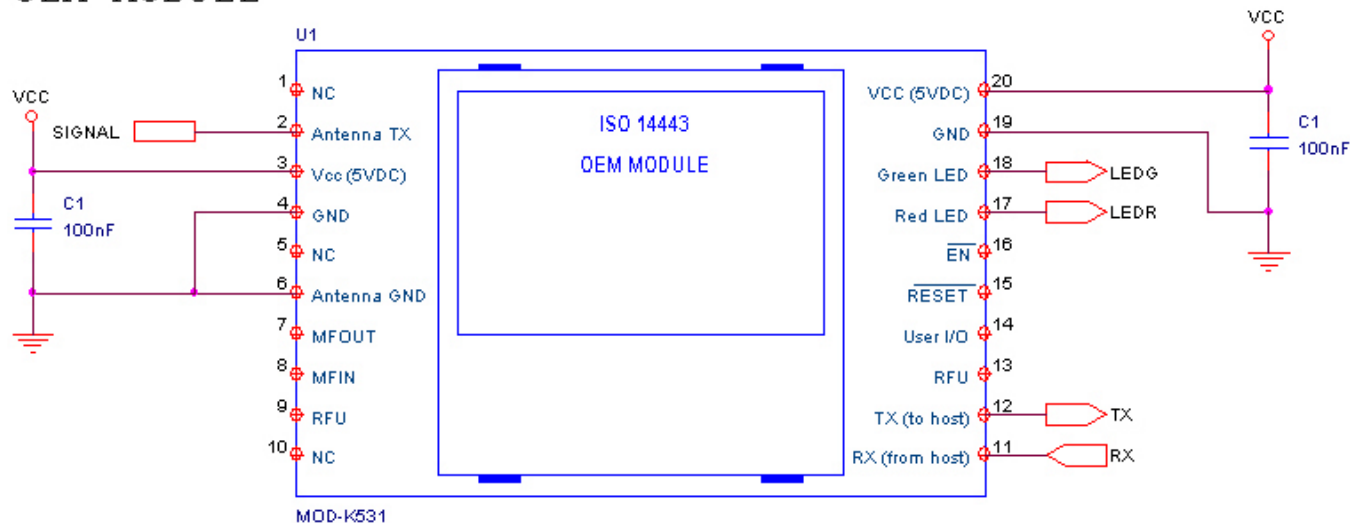
Tél. : +33 1 64 53 20 10
Fax : +33 1 64 53 20 18

mail : info@pro-active.fr
web : www.pro-active.fr

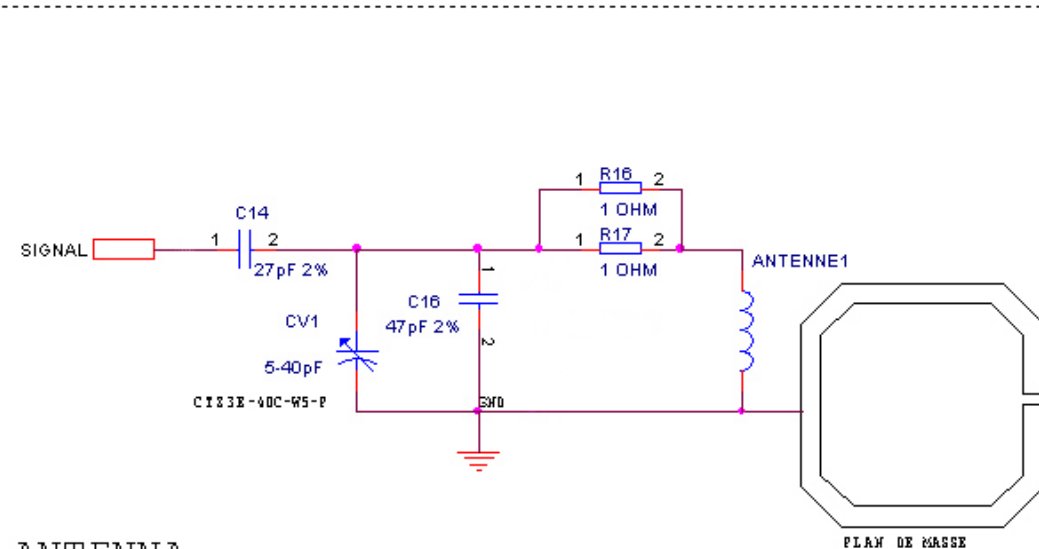
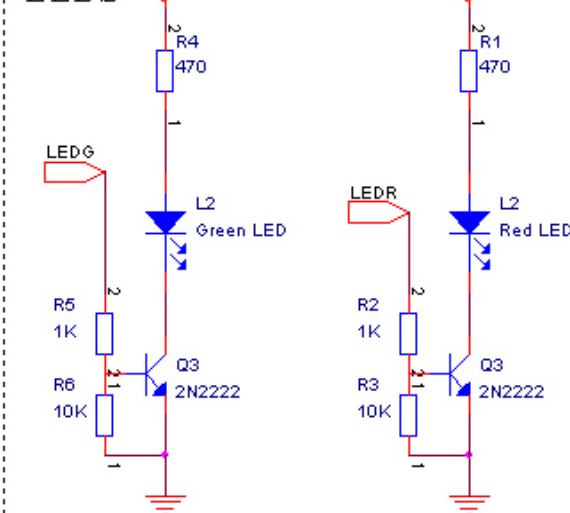
S.A.R.L. capital of 100 000 €
R.C.S. EVRY B 429 665 482
A.P.E. 722Z
VAT #. FR27 429 665 482 00015

Interfacing the MOD-K531 module

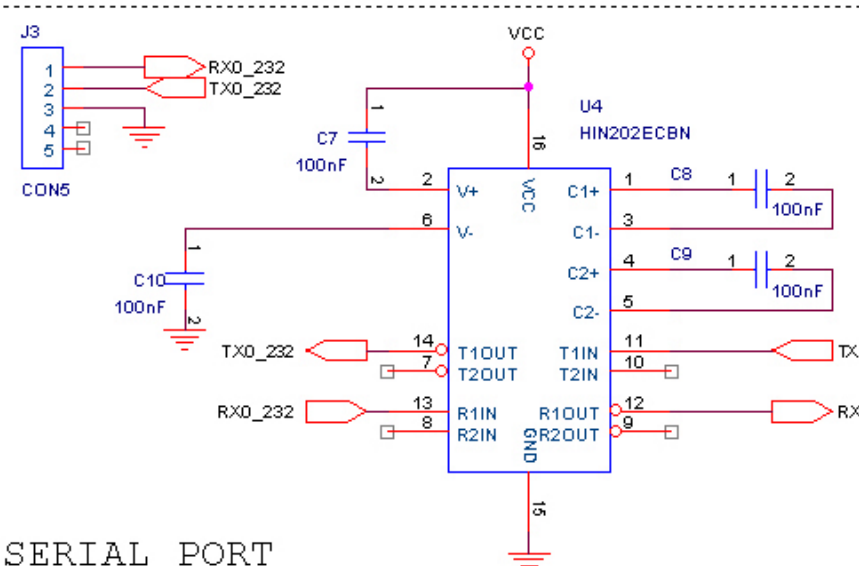
OEM MODULE



LEDS

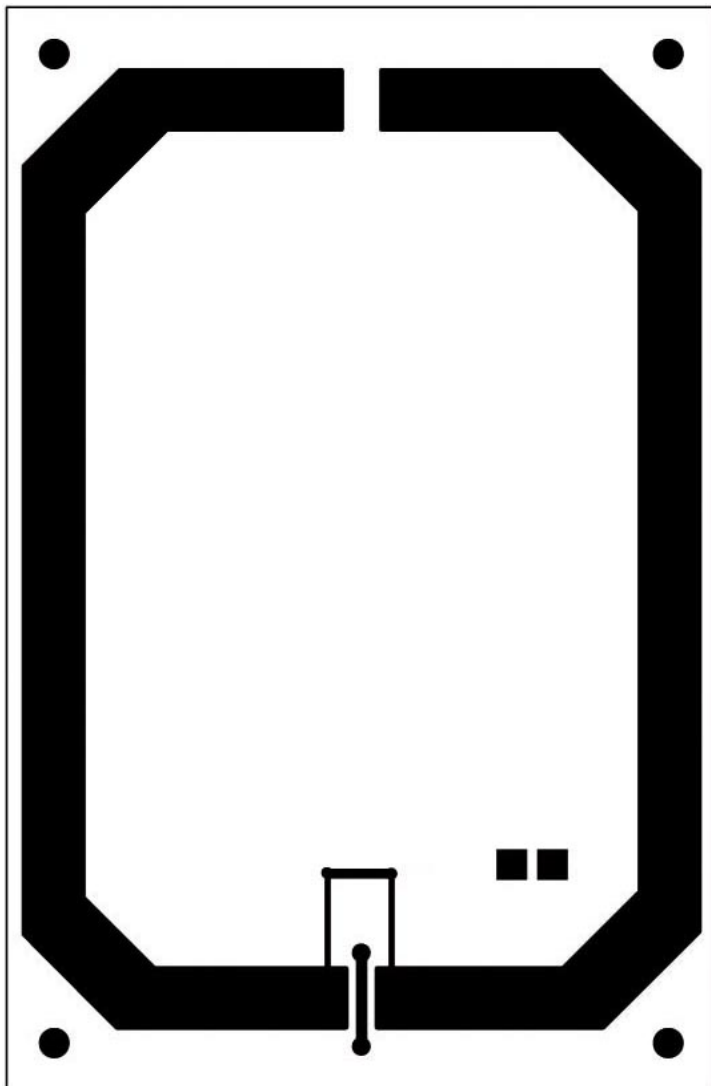


ANTENNA

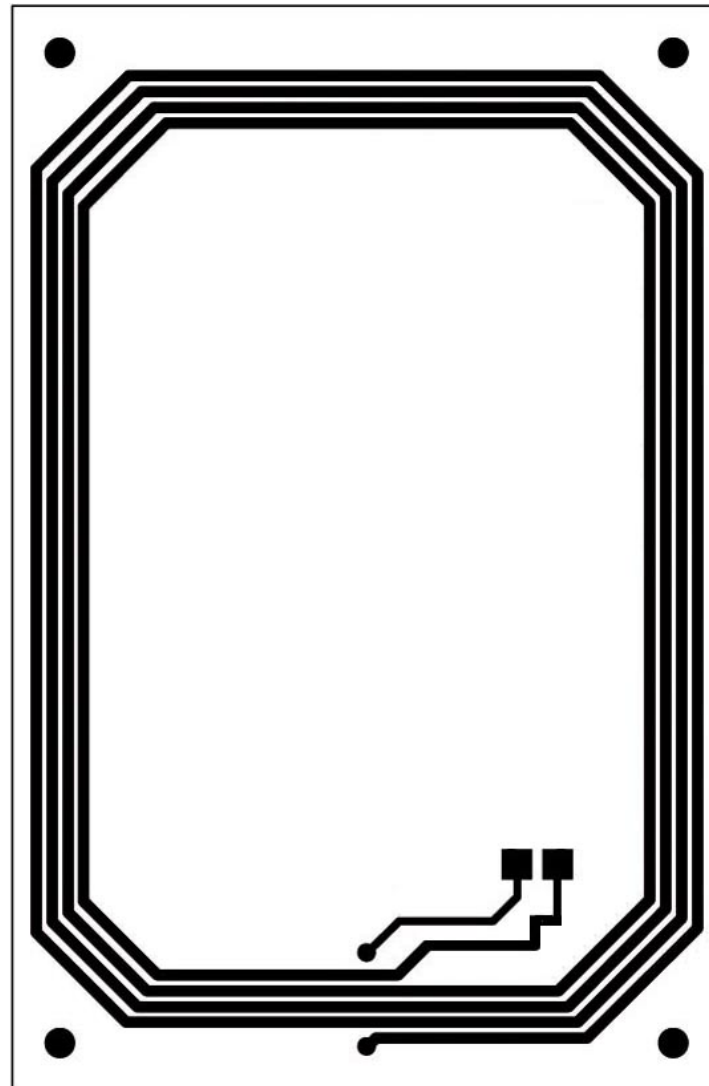


SERIAL PORT

Example 1 : 69x45x1.5 (mm) PCB

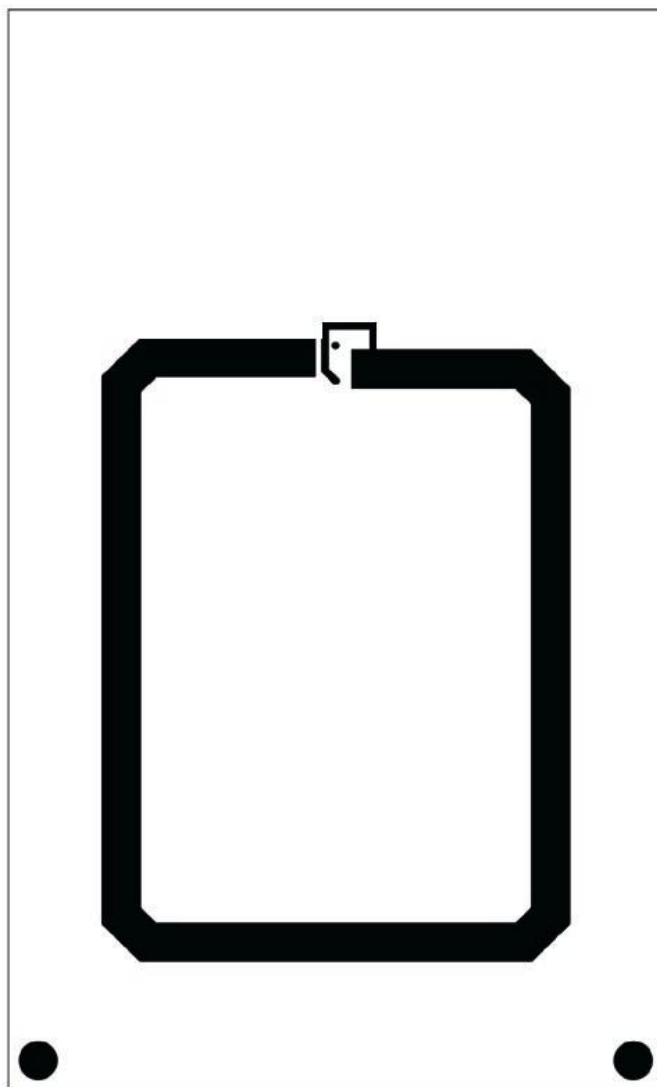


FRONT SIDE

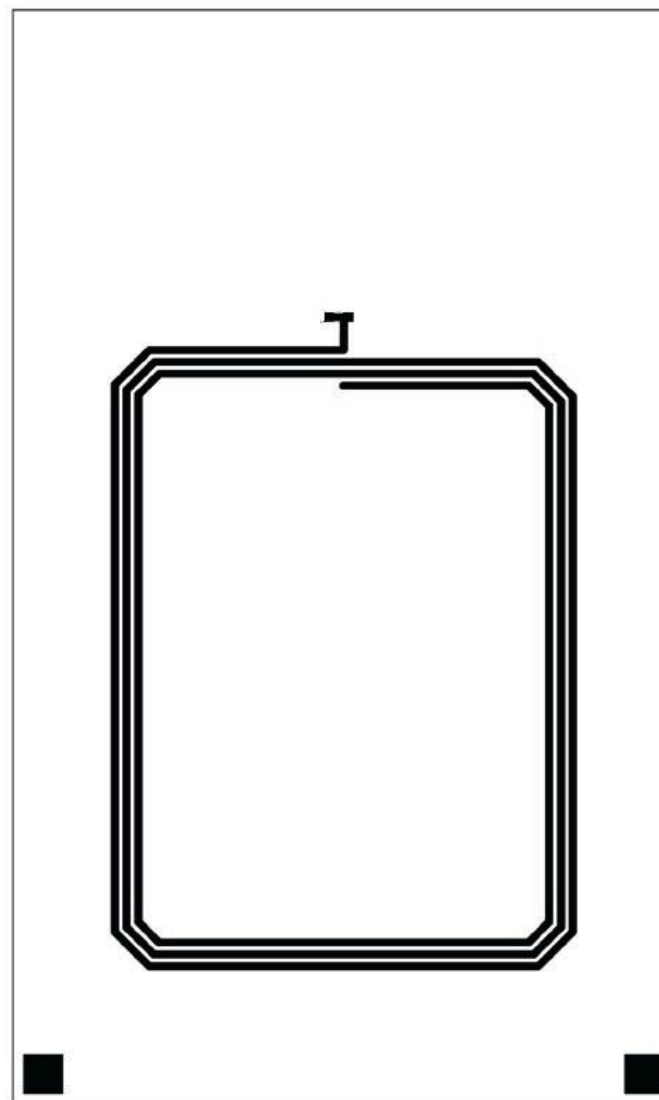


BACK SIDE

Example 2 : 139 x 83.5 x 1.5(mm) PCB



FRONT SIDE



BACK SIDE

Access to Philips documentation

Password Request Form for Confidential MIFARE Documents

Here is the link on the Philips form to request passwords for different datasheets.

http://www.semiconductors.philips.com/acrobat/other/identification/MF_Passwordrequest03_2004.pdf

Recommended Documents

On the following page of the Philips website you will find datasheets you need :

<http://www.semiconductors.philips.com/markets/identification/datasheets/index.html>

MIFARE and I-CODE MICORE reader IC family; Directly Matched Antenna Design; Application Note

<http://www.semiconductors.philips.com/acrobat/other/identification/MC077910.pdf>

Mifare(14443A) 13,56 MHz RFID Proximity Antennas; Application Note

<http://www.semiconductors.philips.com/acrobat/other/identification/MC078010.pdf>

These documents require a password.

**PRO ACTIVE
PARC GUTENBERG
13 VOIE LA CARDON
F-91120 PALAISEAU
FRANCE**

Tél. +33 1 64 53 20 10 – Fax. +33 1 64 53 20 18

Mail : info@pro-active.fr

PRO ACTIVE ON THE INTERNET
<http://www.pro-active.fr>

S.A.R.L. capital of 100 000 € – RCS EVRY B 429 665 482