NFC Antenna Tool

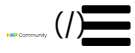
Dielectric to use: FR4 CL4

Choose reader/tag: Reader

Choose tag: - Select -

Choose reader: CLRC663 plus

SELECT CLEAN FIELDS



SIGN IN (/PLUGINS/COMMON/FEATURE/SAML/DOAUTH/POST?REFERER=HTTPS%3A%2F%2FCOMMUNITY.NXP.COM%2FT5%2FNFC%2FB
P%2FNFC%3F_GL%3D1*1DHKVLA*_GA*MTYXNDA1NDYXMC4XNZIXNJG0MJC2*_GA_WM5LE0KMSH*MTCZNJGXNJC0NS4XMJGUMC

LANGUAGE

Readers

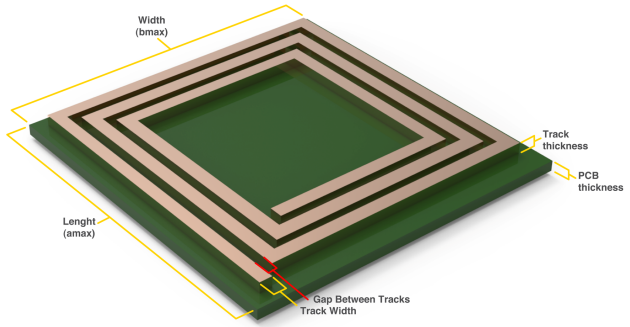
SIGN IN (/PLUGINS/COMMON/FEATURE/SAML/DOAUTH/POST?REFERER=HTTPS%3A%2F%2FCOMMUNITY.NXP.COM%2FT5%2FNFC%2FBD-P%2FNFC%3F_GL%3D1*1DHKVLA*_GA*MTYXNDA1NDYXMC4XNZIXNJG0MJC2*_GA_WM5LE0KMSH*MTCZNJGXNJC0NS4XMJGUMC

DOWNLOAD DATA

LANGUAGE

Length (amax)	50	**mm**
Width (bmax)	32	**mm**
Track width (w)	350	**µm**
Gap between tracks (g)	250	**µm**
Additional Overlap Area (A)	0	**mm^2**
Track Thickness	35	**µm**
Number of Turns (N)	3	
Turn exponent (E)	1.66	
PCB Thickness	1.59	**mm**
Er	4.3	

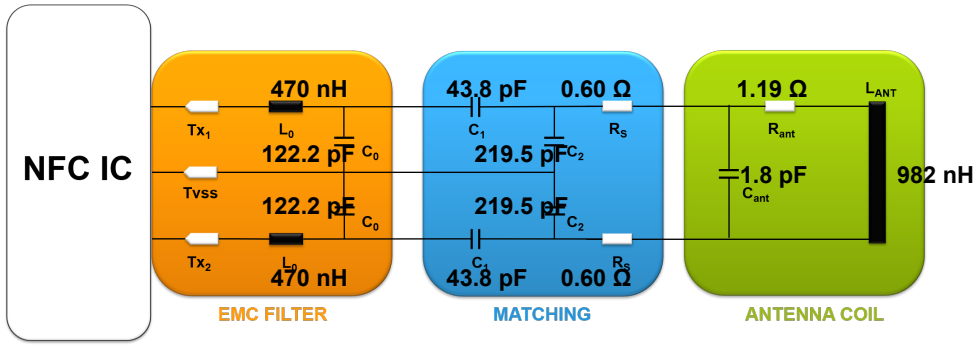
Inductance (Lant)	982	**nH**
Lant min	920	**nH**
Lant max	1211	**nH**
Capacitance (Cant)	1.8	**pF**
Resistance (Rant)	1.19	**Ω**
Self resonance (Fres)	121	**MHz**



RESET ANTENNA SYNTHESIS

LANGUAGE

Q	35	
Target impedance	20	Ω
fEMC cut off	21	MHz
L0	470	nH



☐ Check the box if you want to use the autocalculated value for the PN7462/PN7360 or PN5180

MATCHING NETWORK

Rs	0.60	Ω
C0	122.2	pF
C1	43.8	pF
C2	219.5	pF

Errors / Warnings

RFID 13.56Mhz Antenna