

[SIGN IN \(/PLUGINS/COMMON/FEATURE/SAML/DOAUTH/POST?REFERER=HTTPS%3A%2F%2FCOMMUNITY.NXP.COM%2FT5%2FNFC%2FP%2FNFC%3F_GL%3D1*IDHKVLA*_GA*MTYxNDA1NDYxMC4xNZIXNJG0MJC2*_GA_WM5LE0KMSH*MT CZNJGXNJCONS4XMJGUMC1](#)

Home (/) / RFID / NFC (/t5/RFID-NFC/ct-p/RFID-NFC) / NFC

NFC

LANGUAGE

All community



Search all content

Options

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%2FP%2FNFC%3F_GL%3D1*1DHKVLA*_GA*MTYxNDA1NDYxMC4xNZIXNJG0MJC2*_GA_WM5LE0KMSH*MTcZnJGxNjC0NS4xMjGUMC1

LANGUAGE



Readers

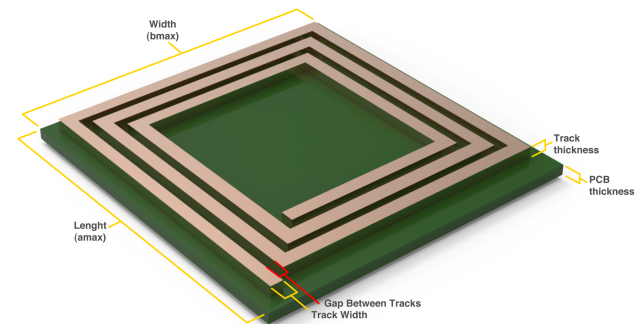
SIGN IN (/PLUGINS/COMMON/FEATURE/SAML/DOAUTH/POST?REFERER=HTTPS%3A%2F%2FCOMMUNITY.NXP.COM%2FT5%2FNFC%2FIP%2FNFC%3F_GL%3D1*IDHKVLA*_GA*MTYxNDA1NDYxMC4xNZIXNJG0MJC2*_GA_WM5LE0KMSH*MT CZNJGXNJCONS4XMJGUMC1

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





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RESET ANTENNA SYNTHESIS

LANGUAGE

Q

35

Target impedance

20

Ω

fEMC cut off

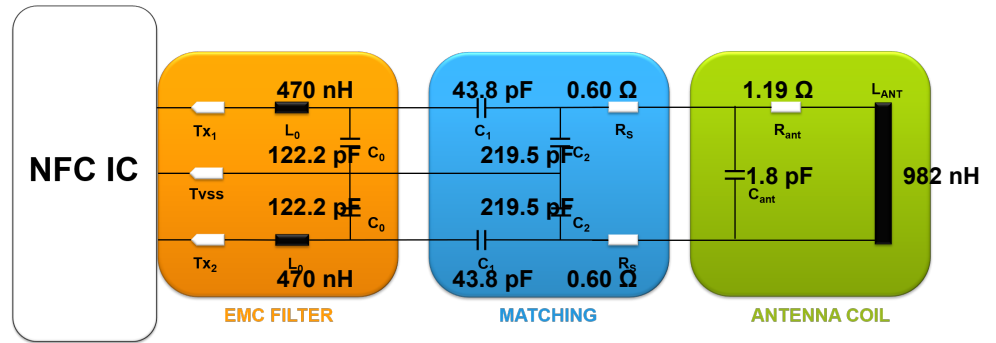
21

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

