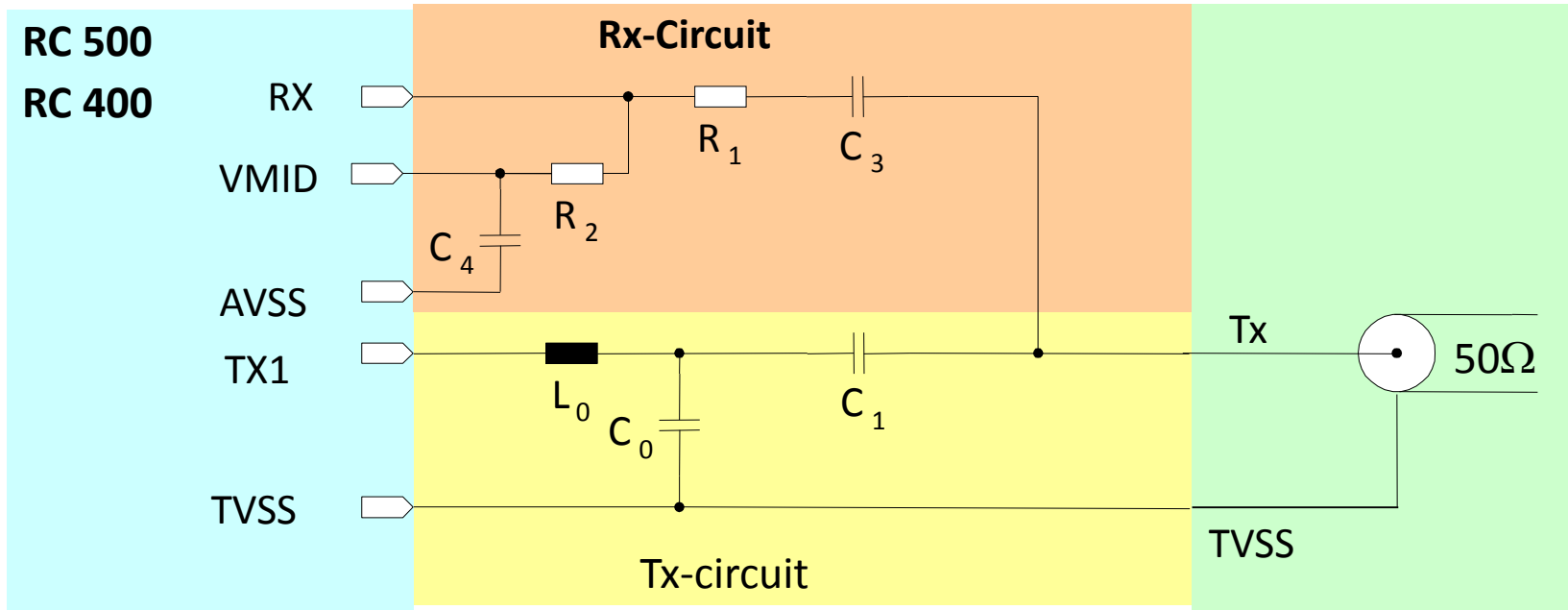


# mifare<sup>®</sup> for the 50 Ohm Short Range Antenna 2



TX2

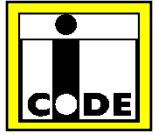
### Tx-Circuit:

- $L_0 = 1 \mu\text{H}$
- $C_0 = 68 \text{ pF}$
- $C_1 = 68 \text{ pF}$

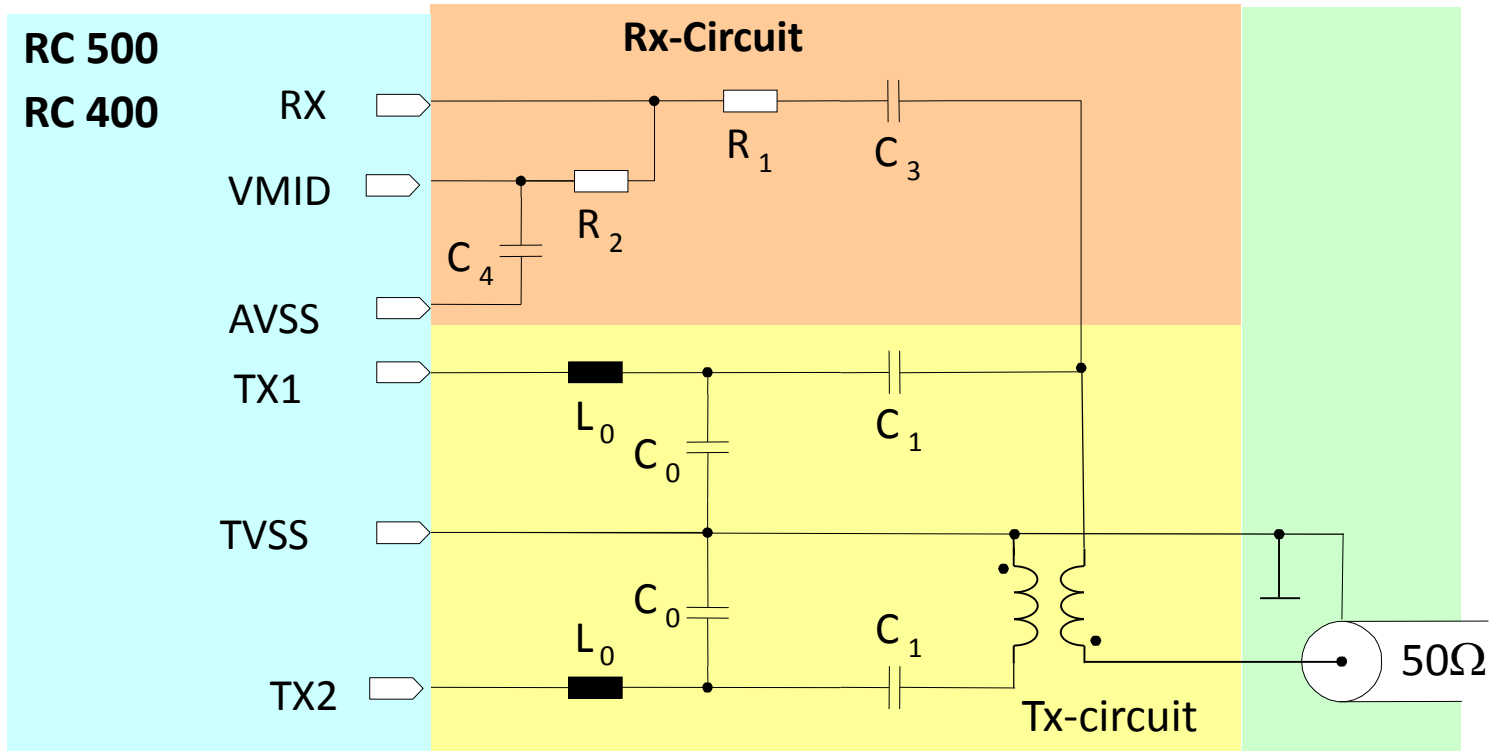
### Rx-Circuit:

- $R_1 = 470 \Omega \dots 2,7 \text{ k}\Omega$
- $R_2 = 820 \Omega$
- $C_3 = 15 \text{ pF}$
- $C_4 = 100 \text{ nF}$

Details of the Rx-Circuit: see next slideset



# mifare<sup>®</sup> for the 50 Ohm Full Range Antenna 2



### Tx-Circuit:

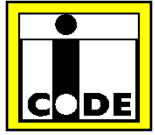
$$L_0 = 1 \mu\text{H} \quad C_0 = 68 \text{ pF}$$
$$C_1 = 82 \text{ pF}$$

### Rx-Circuit:

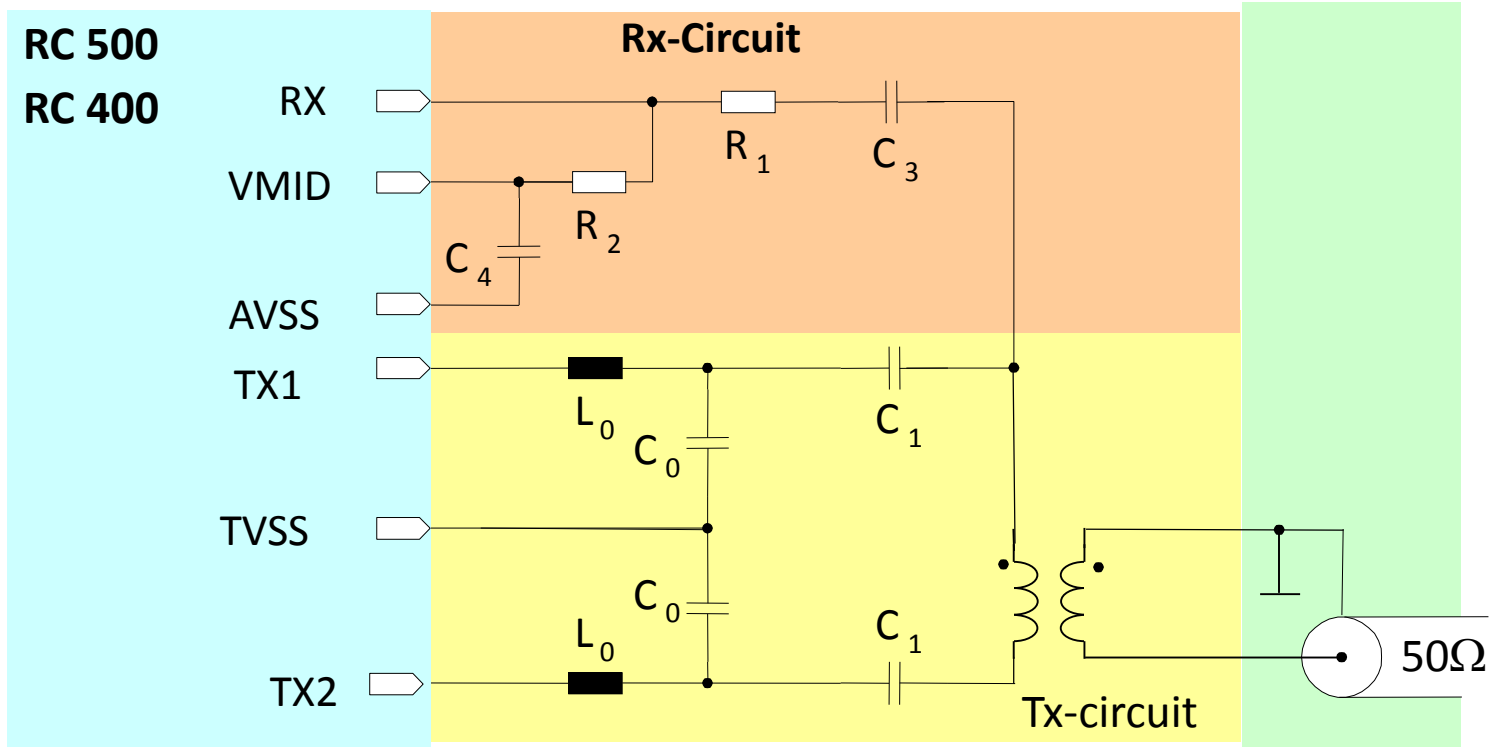
$$R_1 = 470 \Omega \dots 2,7 \text{ k}\Omega$$
$$R_2 = 820 \Omega$$

$$C_3 = 15 \text{ pF}$$
$$C_4 = 100 \text{ nF}$$

Details of the Rx-Circuit: see next slideset



# mifare<sup>®</sup> for the 50 Ohm Full Range Antenna 3 Alternative



Tx-Circuit:		Rx-Circuit:	
$L_0 = 1 \mu\text{H}$	$C_0 = 47 \text{ pF}$	$R_1 = 1\text{k}\Omega$	$C_3 = 15 \text{ pF}$
	$C_1 = 95 \text{ pF}$	$R_2 = 4.7\text{k}\Omega$	$C_4 = 100 \text{ nF}$

Details of the Rx-Circuit: see next slideset