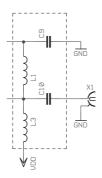
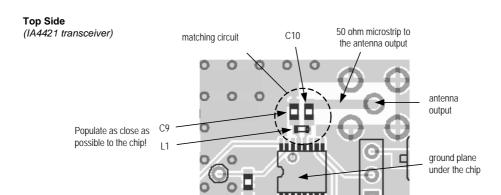
Matching Circuit

The actual values for each chips can be found in the appropriate datasheets!

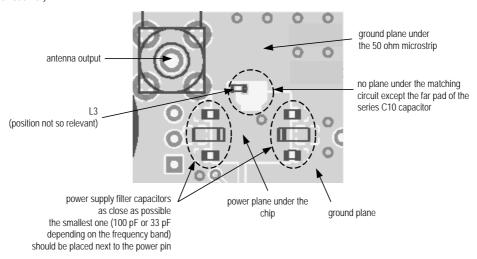


IA4420					
Freq.	C9, C10	L1	L3		
[MHz]	[pF]	[nH]	[nH]		
315	6.8	43	390		
434	4.7	27	390		
868/915	3	6.8	100		

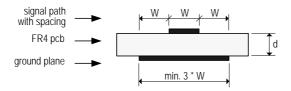
IA4421					
Freq.	C9, C10	L1	L3		
[MHz]	[pF]	[nH]	[nH]		
-	-	-	-		
434	4.7	27	390		
868/915	3	6.8	100		



Bottom Side (IA4421 transceiver)

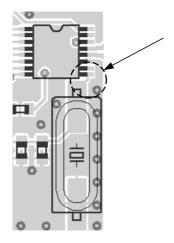


50 ohm Microstrip



pcb thickness (d) [mm]	0.8	1	1.6
wire width (W) [mm]	1.47	1.84	2.97

Crystal Arrangement (IA4321 receiver)



Keep parasitic capacitance as low as possible (use short wire)!

In case of using separate RX-TX chips, use the same layout for the crystals on both panels in order to have the same reference frequency!