

Ordering capacitors.

ARDFrx80 20180128-16

20180131

Bend wires to fit the PCB. RM = wire space.

Keep wires minimal SHORT to keep SRF as high as possible.

Part	Details	Conrad orderNr
C4,5,36,37,203,204	220 pF NPO	451466
C6	3n3 FOIL	455040
C7	20 pF NPO for a tuning range of abt. 100 kHz. 15 pF + 4p7 in parallel A smaller total value => larger tuning range	(451260 + 451232)
C3,8,34,35,39,41, 45,47,102,103,106, 112	100 nF ceramic.	531855
C9	10 uF elco	421986
C10	1 uF	453382
C11,13,15,16,17, 18,23,24,43,46,51, 205	22 nF ceramic.	531808
C12,40	100 uF, max d=6.3 - RM2.5	443906
C14	1000 uF 6.3V. max d=8 - RM3.5	422024
C25	REM : near L3 / C48 27pF NPO . It should be possible to adjust L3 for maximal output. If L3 has its core fully inside, solder a 10pF to 27pF capacitor in parallel (at the bottom of the PCB). This value depends on the coils inductance.	457191
C26	REM : near L6 / C29 22pF NPO . It should be possible to adjust L6 for maximal output. If L3 has its core fully inside, solder a 10pF to 27pF capacitor in parallel (at the bottom of the PCB).	457183

	This value depends on the coils inductance.	
C30,31	470 pF	451535
C32	4n7 FILM (! <i>NO ceramic</i> : as these cause microphonic effect !)	455059
C33	3.3 uF tantalum	481696
C38	1.5 uF D=5 (elco or tantalum)	447029
C48,49,101	47 pF (100V)	531826
C104a + C104b	150pF NP0 + 39pF NP0 or 180pF NP0 + 10 pF NP0	451419 457191
C105	30 pF 4.5x3.2 mm SMD trimmer type TZC3 (Green).	447417
C107,108	1 nF RM2.5	1235242
C110	6 pF NP0 4.5x3.2 mm SMD trimmer type TZC3 (Blue).	447418
C111	10 pF NP0	457124
C202	22 pF NP0	451287
C207	4p7. It sets oscillator bias signal strength, for optimal sensitivity of the infinite impedance detector. This depends on the crystal Xt activity. Use the smallest practical value.	451232
