ARDFrx80

PCB 20180128-16 v.201801331 Ordering details for coils and crystals. RM=pin space. For adjustments of coils see "Coil details".

| | | | | | | | Conrad OrderNr | |
|---------------------------|---|---------------|---------|----------------------|-------------------|----------|--------------------------|---|
| L102 | c). Amidon / Fair-Rite rod Ui=125 material #61 long and expensive. Adapt the number of turns for nominal 8.00 uH inductance. | | | | | | 535575 | Box73.de FS-150x8- 4B Amidon.de R61-xxx- yyy |
| | Winding : Use one pair of firmly twisted wires taken from a piece of CAT5 network cable (outside wire dia is.1mm). See "Coils details" for correct adjustment of L102 selfinductance. | | | | | | | |
| L101 | 3 turns close wound over the <u>centre of the 50mm rod</u> . Or try : (L101 turns) = $(3/14 \times L102 \text{ turns})$. | | | | | | | |
| L2 | Local oscillator coil 1.00 uH . Neosid 7.5 x 7.5 mm WZ6,5 or 5048 See "Coils details" for <u>one-time-adjustment</u> of 5048. | | | | | | | Amidon.de |
| L3, L6 | IF coils tuned to 10.7 MHz. The following types "Pre-adjusted filter coils series 7.1" could be used : | | | | | | | Amidon.de |
| | | L [uH] | Туре | Start-End | RM | | | |
| | | 4 | 5056 | 5-4 | 2.25 | | | |
| | | 3.3 | 5044 | 5-1 | 2.25 | | | |
| | | 3.3 | WZ12,25 | 5-1 | 2.5 | | | |
| | | 3.9 | WZ13,5 | 5-1 | 2.5 | | | |
| | | 4.7 | WZ15,25 | 5-1 | 2.5 | | | |
| | If needed | 5.6 bend t | WZ16.25 | 5-1 s sligthly to | 2.5 fit the Pi | CB holes | | |
| | If needed, bend the coil pins sligthly to fit the PCB holes. If needed, enlarge the valuse of C25 and C26. | | | | | | | |
| L7,10,11,12,13, 14,201 | 22uH EPCOS / FASTRON axial chokes 3x7mm SRF >= 11MHz. | | | | | | 440311 | |
| F1+F2 | Crystal filter 10M12B (3k) -OR- 10M7B (1k8) Box73.de | | | | | | | 10M12B |
| Cr | BFO crystal 10.7MHz HC18U Box73.de | | | | | | | 10.700k |
| Trim key | Special tool !! for adjustment of Neosid coils. Box73.de | | | | | | | ABGL-SD |
| Fr | 9,5 x 9,5mm ferrite core with 3 turns, two twisted wires. Inserted between PCB "HPH" and chassis phone bus. | | | | | | 1086850 | |