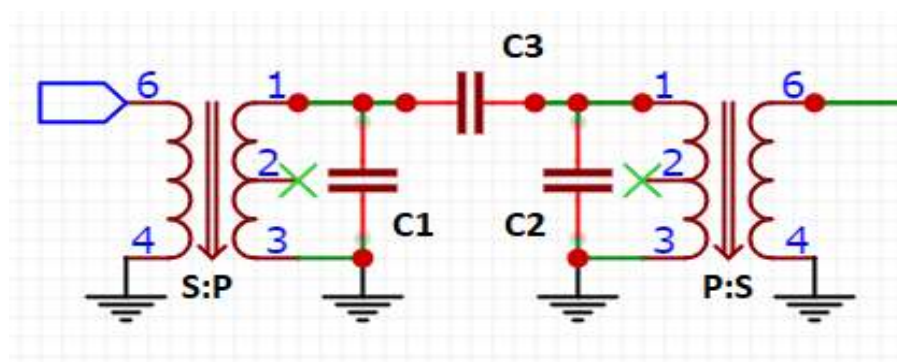


| ID | NameValue | Designator                                                                                                                                                                             | Quantity | Note                 |
|----|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------|
| 1  | 104       | C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C16,C17,C18,C19,C20,C21,C22,C23,C24,C25,C26,C27,C28,C29,C30,C33,C38,C44,C49,C53,C54,C55,C56,C60,C61,C62,C63,C64,C66,C69,C70,C71,C73,C74,C75,C76 | 48       | Multilayer Capacitor |
| 2  | 100/68pF  | C13,C15                                                                                                                                                                                | 2        | Multilayer Capacitor |
| 3  | 220/ 82pF | C14                                                                                                                                                                                    | 1        | Multilayer Capacitor |
| 4  | 10uF      | C31,C32,C34,C41,C43,C47                                                                                                                                                                | 6        | Elco                 |
| 5  | 1uF       | C35,C37,C42,C48,C51                                                                                                                                                                    | 5        | Elco                 |
| 6  | 10pF      | C36                                                                                                                                                                                    | 1        | Multilayer Capacitor |
| 7  | 101       | C39                                                                                                                                                                                    | 1        | Multilayer Capacitor |
| 8  | 470uF     | C40,C46,C50                                                                                                                                                                            | 3        | Elco                 |
| 9  | 100uF     | C45,C72                                                                                                                                                                                | 2        | Elco                 |
| 10 | 47uF      | C52                                                                                                                                                                                    | 1        | Elco                 |
| 11 | 390pF     | C57                                                                                                                                                                                    | 1        | Ceramic Capacitor    |
| 12 | 820pF     | C58,C59                                                                                                                                                                                | 2        | Ceramic Capacitor    |
| 13 | XX        | C65,C67,C68 (Sesuai Band =Note)                                                                                                                                                        | 3        | Ceramic Capacitor    |
| 14 | 1N4148    | D1,D2,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14,D15,D16,D18,D19                                                                                                                         | 18       |                      |
| 15 | 1N4007    | D17                                                                                                                                                                                    | 1        |                      |
| 16 | DC 12V    | DC1                                                                                                                                                                                    | 1        | DC 12-13,8V          |
| 17 | VFO BFO   | J1                                                                                                                                                                                     | 1        | CONNECTOR            |
| 18 | S-METER   | J2                                                                                                                                                                                     | 1        | CONNECTOR            |
| 19 | Volume    | J3                                                                                                                                                                                     | 1        | Pot 10K              |
| 20 | MIC GAIN  | J4                                                                                                                                                                                     | 1        | Pot 10K              |
| 21 | AUX 5V    | J5                                                                                                                                                                                     | 1        | CONNECTOR            |
| 22 | AGC Slow  | J6                                                                                                                                                                                     | 1        | CONNECTOR            |
| 23 | Func      | J7                                                                                                                                                                                     | 1        | CONNECTOR            |
| 24 | SPK       | JP1                                                                                                                                                                                    | 1        | CONNECTOR            |
| 25 | MIC       | JP2                                                                                                                                                                                    | 1        | CONNECTOR            |
| 26 | TX OUT    | JP3                                                                                                                                                                                    | 1        | CONNECTOR            |
| 27 | TX+       | JP4                                                                                                                                                                                    | 1        | CONNECTOR            |
| 28 | RX+       | JP5                                                                                                                                                                                    | 1        | CONNECTOR            |
| 29 | PTT       | JP6                                                                                                                                                                                    | 1        | CONNECTOR            |
| 30 | RX IN     | JP7                                                                                                                                                                                    | 1        | CONNECTOR            |
| 31 | 100uH     | L1                                                                                                                                                                                     | 1        | Colour Inductor      |
| 32 | 2.2uH     | L2                                                                                                                                                                                     | 1        | Colour Inductor      |
| 33 | 1uH       | L3,L4                                                                                                                                                                                  | 2        | Colour Inductor      |
| 34 | 47uH      | L5                                                                                                                                                                                     | 1        | Colour Inductor      |
| 35 | TX        | LED1                                                                                                                                                                                   | 1        | Red                  |
| 36 | PWR       | LED2                                                                                                                                                                                   | 1        | Green                |
| 37 | ADE-1     | MX1                                                                                                                                                                                    | 1        | Mixer (optional)     |
| 38 | 817       | OC1                                                                                                                                                                                    | 1        | Optocopler           |
| 39 | 2N3904    | Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10,Q11,Q12,Q14,Q15,Q16,Q17,Q18,Q19,Q20,Q21                                                                                                                 | 20       | NPN                  |
| 40 | 2N7000    | Q13                                                                                                                                                                                    | 1        | FET                  |
| 41 | 100R      | R1,R3,R70,R75                                                                                                                                                                          | 4        | 0.25Watt Resistor    |
| 42 | 4K7       | R2,R6,R45                                                                                                                                                                              | 3        | 0.25Watt Resistor    |
| 43 | 220R      | R4,R7,R8,R12,R14,R15,R17,R23,R24,R25,R29,R31,R32,R34,R35,R39,R46,R47,R54,R66,R67,R89                                                                                                   | 22       | 0.25Watt Resistor    |
| 44 | 2K2       | R5,R20,R21,R22,R38,R57,R60                                                                                                                                                             | 7        | 0.25Watt Resistor    |
| 45 | 1K        | R9,R10,R26,R27,R28,R43,R53,R72,R80,R83,R85,R86,R90                                                                                                                                     | 13       | 0.25Watt Resistor    |

|    |                     |                                 |   |                          |
|----|---------------------|---------------------------------|---|--------------------------|
| 46 | 47K                 | R11                             | 1 | 0.25Watt Resistor        |
| 47 | 10R                 | R13,R16,R30,R33,R48,R56,R71,R74 | 8 | 0.25Watt Resistor        |
| 48 | 10K                 | R18,R59,R63                     | 3 | 0.25Watt Resistor        |
| 49 | 470R                | R19,R37,R76,R79,R87             | 5 | 0.25Watt Resistor        |
| 50 | 4R7                 | R36                             | 1 | 0.25Watt Resistor        |
| 51 | 5k6                 | R40                             | 1 | 0.25Watt Resistor        |
| 52 | 2k2                 | R41                             | 1 | 0.25Watt Resistor        |
| 53 | 22R                 | R42                             | 1 | 0.25Watt Resistor        |
| 54 | 100k                | R44                             | 1 | 0.25Watt Resistor        |
| 55 | 100R                | R49,R73                         | 2 | Top Adjust Trimpot       |
| 56 | 20K                 | R50                             | 1 | Top Adjust Trimpot       |
| 57 | 500R                | R51                             | 1 | Top Adjust Trimpot       |
| 58 | 120K                | R52,R62                         | 2 | 0.25Watt Resistor        |
| 59 | 4k7                 | R55,R64,R68                     | 3 | 0.25Watt Resistor        |
| 60 | 560R                | R58,R88                         | 2 | 0.25Watt Resistor        |
| 61 | 5K6                 | R61                             | 1 | 0.25Watt Resistor        |
| 62 | 2R2                 | R65,R69                         | 2 | 0.25Watt Resistor        |
| 63 | 100K                | R77                             | 1 | 0.25Watt Resistor        |
| 64 | 150R                | R78                             | 1 | 0.25Watt Resistor        |
| 65 | 68R                 | R81,R82                         | 2 | 0.25Watt Resistor        |
| 66 | 10K                 | R84,R92                         | 2 | 0.25Watt Resistor        |
| 67 | 390R                | R91                             | 1 | 0.25Watt Resistor        |
| 68 | 6R8                 | R93                             | 1 | 0.25Watt Resistor        |
| 69 | 33R                 | R94                             | 1 | 0.25Watt Resistor        |
| 70 | Toroid-Trifillar Bi | T1,T2,T3                        | 3 | 4-8T /0,4mm/ Toroid 10mm |
| 71 | 30pF                | TC                              | 1 | Trimmer Capacitor        |
| 72 | Trafo IF 5pin       | TR1,TR2                         | 2 | Coil Inductor 10X10      |
| 73 | TDA2003             | U1                              | 1 | Audio Amp +HS            |
| 74 | AMS1117-5.0         | U2                              | 1 | SMD                      |
| 75 | 8Mhz                | Y1,Y2,Y3,Y4                     | 4 | 4-12MHz Xtal             |
| 76 | Relay 12V 8Pin      | K1,K2,K3                        | 3 | HKE                      |

### Band Pass Filters

| Band | L (uH) | Turns Primer | Turns Secunder | C1 / C2 | C3    |
|------|--------|--------------|----------------|---------|-------|
| 160M |        |              |                |         |       |
| 80M  | 22     | 36           | 9              | 150pF   | 12pF  |
| 40M  | 13     | 28           | 7              | 82pF    | 10pF  |
| 20M  | 5.2    | 16           | 4              | 47pF    | 6,8pF |
| 15M  | 3.5    | 12           | 3              | 47pF    | 4,7pF |
| 10M  | 3      | 10           | 3              | 20pF    | 2,7pF |



Pin 1,2,3 =Primer  
Pin 4,6 =Secunder