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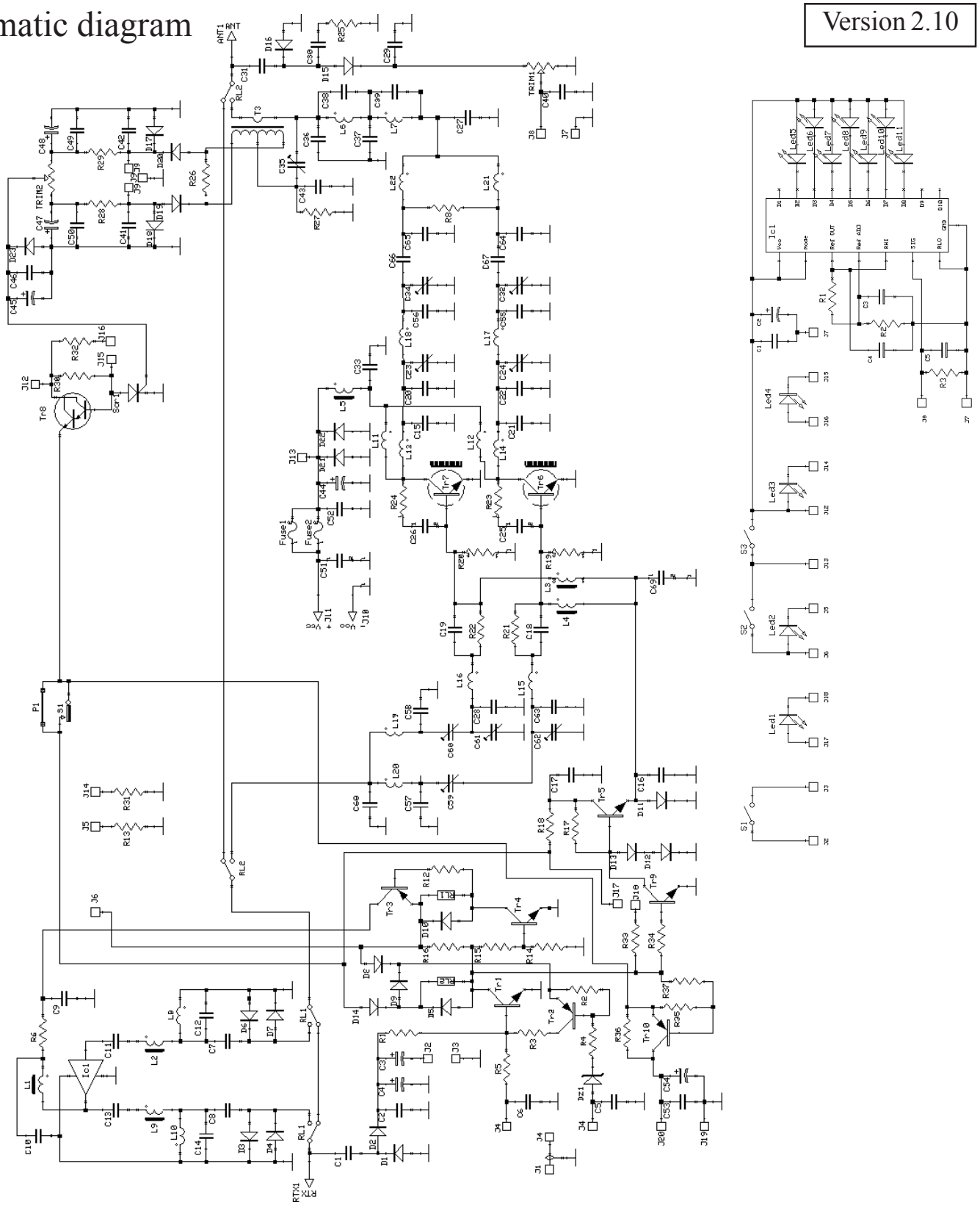
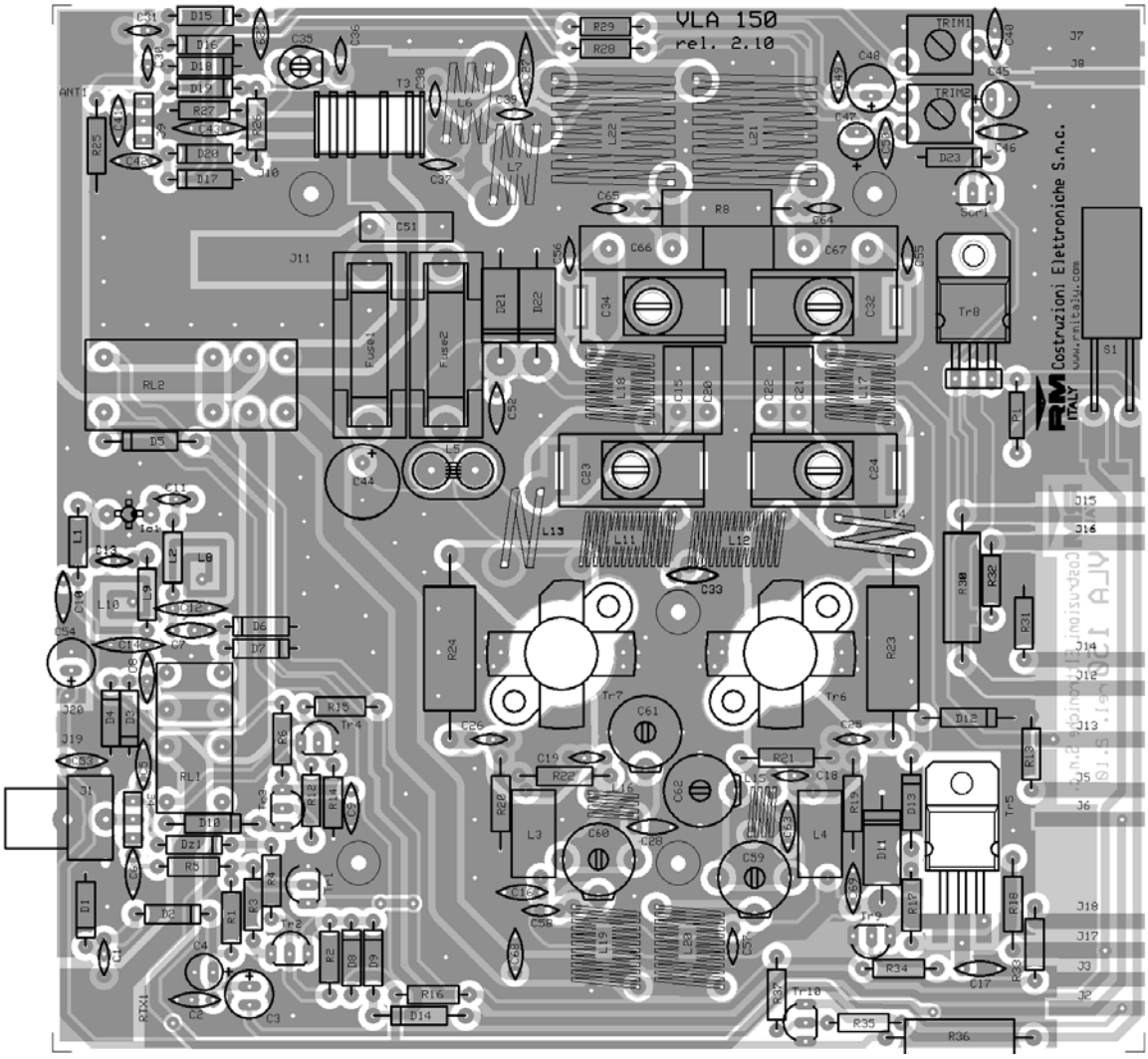
# VLA 150 VHF linar amplifier

Schematic diagram

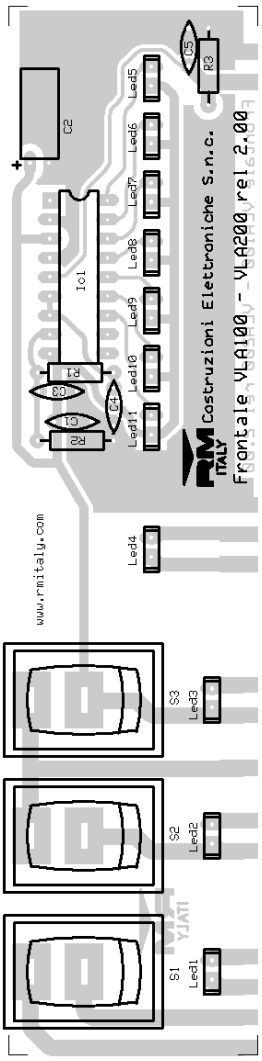
Version 2.10



**Board A**




**Board B**




## List of components Board A

| | | | |
|---|---|---|---|
| C 1 | = 3,3 pF | 50 V | NP0 |
| C 2 | = 10 nF | 50 V | |
| C 3 | = 33 µF | 16 V | |
| C 4 | = 4,7 µF | 16 V | |
| C 5 | = 100 nF | 50 V | |
| C 6 | = 100 nF | 50 V | |
| C 7 | = 10 nF | 50 V | |
| C 8 | = 10 nF | 50 V | |
| C 9 | = 100 nF | 50 V | |
| C 10 | = 100 nF | 50 V | |
| C 11 | = 6,8 pF | 50 V | NP0 |
| C 12 | = 470 pF | 50 V | N750 |
| C 13 | = 5,6 pF | 50 V | NP0 |
| C 14 | = 470 pF | 50 V | N750 |
| C 15 | = 51 pF | 500 V | Silvered Mica |
| C 16 | = 100 nF | 50 V | |
| C 17 | = 100 nF | 50 V | |
| C 18 | = 1,0 nF | 50 V | |
| C 19 | = 1,0 nF | 50 V | |
| C 20 | = 200 pF | 500 V | Silvered Mica |
| C 21 | = 51 pF | 500 V | Silvered Mica |
| C 22 | = 200 pF | 500 V | Silvered Mica |
| C 23 | = 10 - 100 pF | Mica Trimmer | |
| C 24 | = 10 - 100 pF | Mica Trimmer | |
| C 25 | = 1,0 nF | 50 V | |
| C 26 | = 1,0 nF | 50 V | |
| C 27 | = 120 pF | 500 V | NP0 |
| C 28 | = 180 pF | 50 V | N750 |
| C 29 | = 100 nF | 50 V | |
| C 30 | = 33 pF | 50 V | NP0 |
| C 31 | = 2,2 pF | 50 V | NP0 |
| C 32 | = 10 - 100 pF | Mica Trimmer | |
| C 33 | = 100 nF | 50 V | |
| C 34 | = 10 - 100 pF | Mica Trimmer | |
| C 35 | = 3 - 10 pF | NP0 Trimmer | |
| C 36 | = 47 pF | 500 V | NP0 |
| C 37 | = 56 pF | 500 V | NP0 |
| C 38 | = 33 pF | 500 V | NP0 |

C 39 = 12 pF 500 V NP0
C 40 = 10 nF 50 V
C 41 = 100 nF 50 V
C 42 = 100 nF 50 V
C 43 = 120 pF 50 V NP0
C 44 = 470 µF 25V
C 45 = 10 µF 16V
C 46 = 100 nF 50 V
C 47 = 22 µF 16V
C 48 = 33 µF 16V
C 49 = 100 nF 50 V
C 50 = 100 nF 50 V
C 51 = 10 nF 250 V Polyester
C 52 = 100 nF 50 V
C 53 = 100 nF 50 V
C 54 = 33 µF 25V
C 55 = 100 pF 500 V NP0
C 56 = 100 pF 500 V NP0
C 57 = 47 pF 50 V NP0
C 58 = 47 pF 50 V NP0
C 59 = C 60 = C 61 = C 62 = 6 - 60 pF Philips Trimmer
C 63 = 180 pF 50 V N750
C 64 = 47 pF 500 V NP0
C 65 = 47 pF 500 V NP0
C 66 = 2200 pF 500 V Silvered Mica
C 67 = 2200 pF 500 V Silvered Mica
C 68 = 82 pF 50 V NP0
C 69 = 100 nF 50 V
R 1 = R 2 = R 3 = 2,2 KΩ ¼W
R 4 = 10 KΩ ¼W
R 5 = 2,2 KΩ ¼W
R 6 = 1,2 KΩ ¼W
R 8 = 100 Ω 2W
R 12 = 4,7 KΩ ¼W
R 13 = 1,0 KΩ ¼W
R 14 = R 15 = R 16 = 4,7 KΩ ¼W
R 17 = 1,0 KΩ ¼W
R 18 = 1,0 Ω ½W
R 19 = 10 Ω ½W
R 20 = 10 Ω ½W
R 21 = not present
R 22 = not present
R 23 = 68 Ω 5W
R 24 = 68 Ω 5W
R 25 = 27 Ω ½W
R 26 = 47 Ω ¼W
R 27 = 1,0 KΩ ¼W
R 28 = 10 KΩ ¼W
R 29 = 1,0 KΩ ¼W
R 30 = 330 Ω 2W
R 31 = 1,0 KΩ ¼W
R 32 = 1,0 KΩ ¼W
R 33 = 1,0 KΩ ¼W
R 34 = 10 KΩ ¼W
R 35 = 470 Ω ¼W
R 36 = 68 Ω 2W
R 37 = 2,2 KΩ ¼W
TRIM 1 = TRIM 2 =10 KΩ PT10LV
D 1 = D 2 = D 3 = D 4 = D 6 =D 7 = D 8 = D 9 = 1N4148
D 15 = D 16 = D 17 = D 18 = D 19 =D 20 = D 23 = 1N4148
D 5 = D 10 = D 12 = D 13 = D 14 = 1N4007
D 11 = D 21 = D 22 = 1N5400
Dz 1 = 7,5 V ½W
Tr 1 = Tr 4 = Tr 9 = BC 547
Tr 2 = Tr 3 = BC 557
Tr 10 = BC 327-25
Tr 8 = BDX 53 BFP
Tr 5 = BD 241 BFP
Tr 6 = Tr 7 = SD 1406
Scr 1 = P0102
Ic 1 = MAR-06
L 1 = 10 µH
L 2 = L 9 = 1,0 µH
L 3 = L 4 = VK 200
L 5 = ANRA 793
L 6 = L 7 = 4 coil, wire ø 1.5 on ø 8 mm
L 8 = L 10 = on board coil
L 11 = L 12 = ANRA 455
L 13 = L 14 = 2 coil, wire ø 1.5 on ø 8 mm
L 15 = L 16 = 3 coil, wire ø 0.8 on ø 5 mm
L 17 = L 18 = 5 coil, wire ø 1.2 on ø 8 mm
L 19 = L 20 = ANRA 309
L 21 = L 22 = 5 coil, wire ø 1.5 on ø 13 mm
T 3 = ANRA 700/12
Rl 1 = Relè 12 V 3022
Rl 2 = Relè 12 V 4152
Fuse 1 = Fuse 2 = 8 A

## List of components Board B

C 1 = C 3 = C 4 = C 5 = 10 nF 50 V
C 2 = 10 µF 25V
R 1 = 1,0 KΩ ¼W
R 2 = 8,2 KΩ ¼W
R 3 = 4,7 KΩ ¼W
Ic 1 = LM 3915 N
Led 1 = Led 4 = Red Led
Led 2 = Yellow Led
Led 3 = Led 5 = Led 6 = Led 7 = Green Led
Led 8 = Led 9 = Led 10 = Led 11 = Green Led