RM Costruzioni Elettroniche
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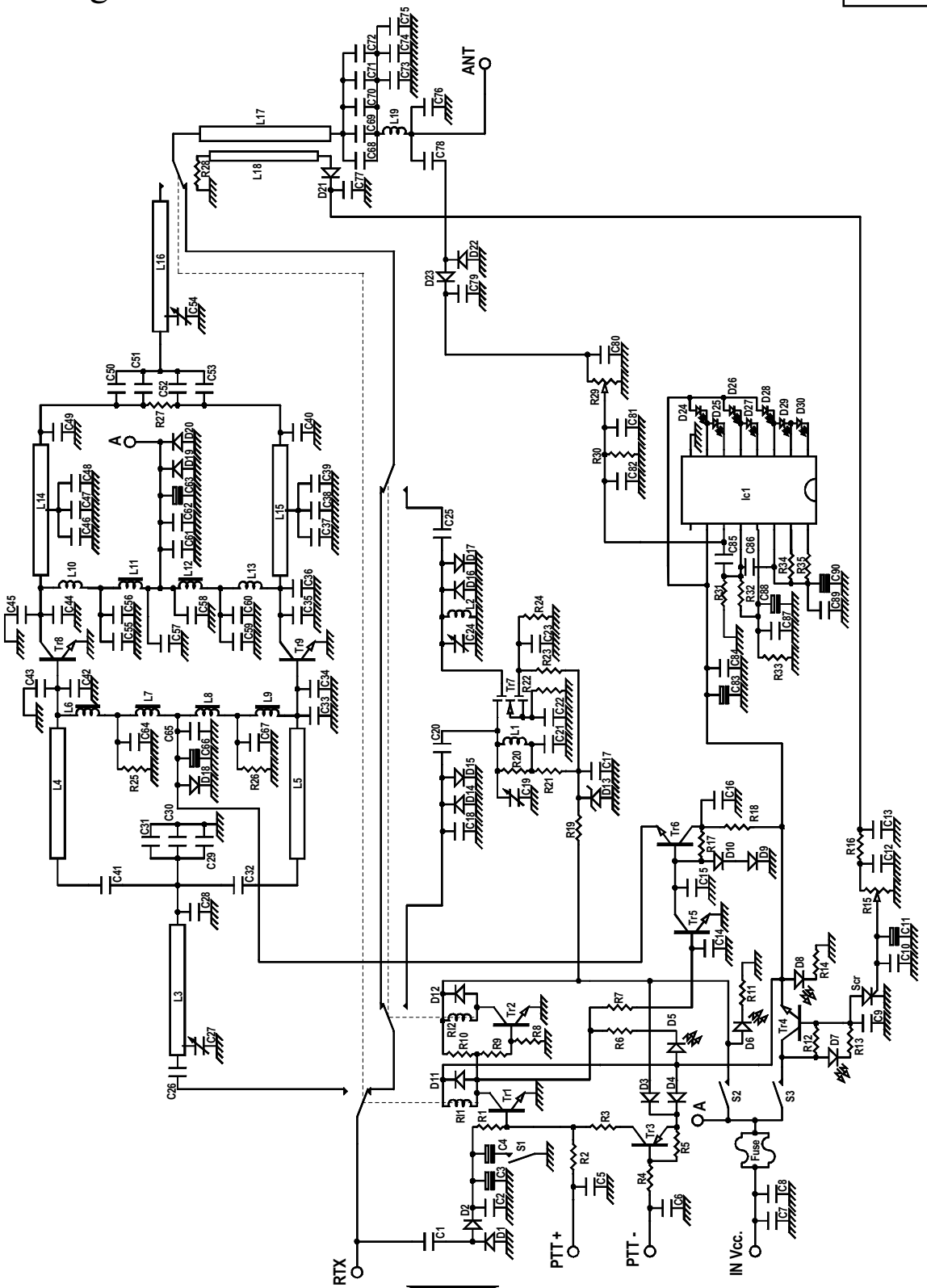
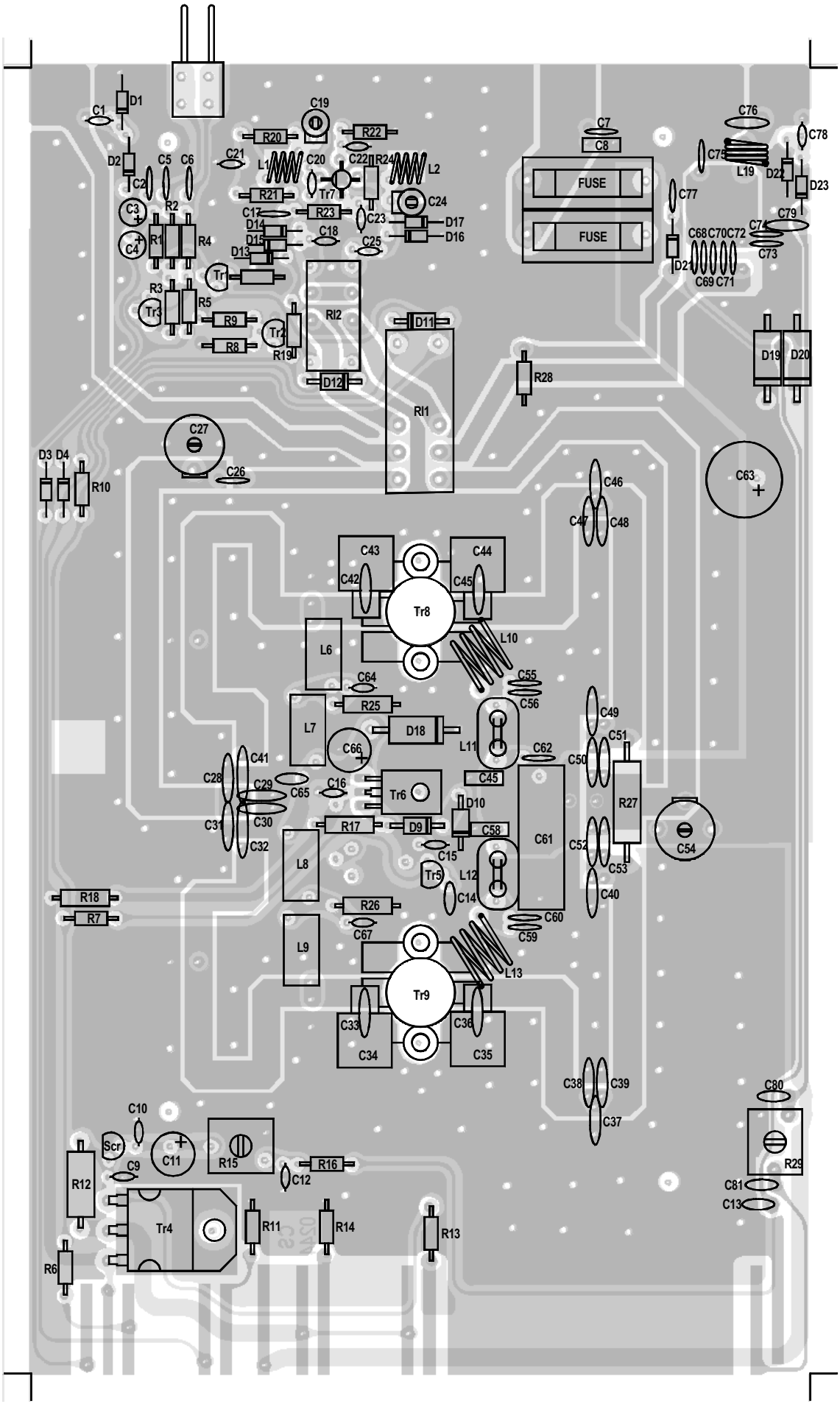
Mod. VLA 200 VHF linear amplifier

Schematic diagram

Version 1.01




C1
D1
D2
C2
C5
C6
C3
C4
R2
R1
R4
C19
R20
R22
C21
L1
C20
C22
R24
L2
R21
Tr7
C24
C17
R23
C23
D17
D14
C18
D16
D15
C25
D13
Tr
R3
R5
Tr3
R9
Tr2
R8
R19
Rl2
D11
D12
Rl1
R28
C7
C8
FUSE
FUSE
C76
C78
C75
L19
D22
D23
C77
C79
C74
C68
C70
C72
C73
D21
C69
C71
D19
D20
C27
C26
D3
D4
R10
C46
C47
C48
C63
C43
C44
C42
C45
Tr8
L6
L10
C64
C55
C56
R25
L7
D18
C66
L11
C62
C49
C51
C50
C41
C28
C29
C65
C16
Tr6
C45
D10
R27
C31
C30
R17
D9
C58
C61
C52
C53
C54
C32
C15
L8
Tr5
L12
C14
C40
R18
R7
R26
C67
C60
C59
L9
L13
Tr9
C33
C36
C34
C35
C38
C39
C37
C80
C10
Scr
C11
R15
R16
C9
C12
R12
R29
C81
C13
Tr4
R11
R14
R13
R6

List of components

C 1	= 2,2 pF	NP0	50 V	
C 2	= 1,0 nF		50 V	
C 3	= 4,7 µF		16 V	
C 4	= 33 µF		16 V	
C 5	= 1,0 nF		50 V	
C 6	= 1,0 nF		50 V	
C 7	= 10 nF		50 V	
C 8	= 220 nF		63 V	Multilayer
C 9	= 1,0 nF		50 V	
C 10	= 1,0 nF		50 V	
C 11	= 10 µF		16 V	
C 12	= 1,0 nF		50 V	
C 13	= 1,0 nF		50 V	
C 14	= 1,0 nF		50 V	
C 15	= 1,0 nF		50 V	
C 16	= 1,0 nF		50 V	
C 17	= 1,0 nF		50 V	
C 18	= 4,7 pF	NP0	50 V	
C 19	= Trimmer 3 - 10 pF			
C 20	= 4,7 pF	NP0	50 V	
C 21	= 1,0 nF		50 V	
C 22	= 1,0 nF		50 V	
C 23	= 1,0 nF		50 V	
C 24	= Trimmer 3 - 10 pF			
C 25	= 3,9 pF	NP0	50 V	
C 26	= 470 pF	N750	50 V	
C 27	= Trimmer 10 - 80 pF			
C 28	= 33 pF	NP0	500 V	
C 29	= 18 pF	NP0	500 V	
C 30	= 18 pF	NP0	500 V	
C 31	= 33 pF	NP0	500 V	
C 32	= 470 pF	N750	50 V	
C 33	= 12 pF	NP0	500 V	
C 34	= 390 pF		500 V	Mica
C 35	= 390 pF		500 V	Mica
C 36	= 56 pF	NP0	500 V	
C 37	= 33 pF	NP0	500 V	
C 38	= 33 pF	NP0	500 V	
C 39	= 33 pF	NP0	500 V	
C 40	= 8,2 pF	NP0	500 V	
C 41	= 470 pF	N750	50 V	
C 42	= 12 pF	NP0	500 V	
C 43	= 390 pF		500 V	Mica
C 44	= 390 pF		500 V	Mica
C 45	= 56 pF	NP0	500 V	
C 46	= 33 pF	NP0	500 V	
C 47	= 33 pF	NP0	500 V	
C 48	= 33 pF	NP0	500 V	
C 49	= 8,2 pF	NP0	500 V	
C 50	= 1,0 nF		500 V	
C 51	= 1,0 nF		500 V	
C 52	= 1,0 nF		500 V	
C 53	= 1,0 nF		500 V	
C 54	= Trimmer 10 - 80 pF			
C 55	= 2,2 nF		500 V	
C 56	= 1,0 nF		500 V	
C 57	= 220 nF		63 V	Multilayer
C 58	= 220 nF		63 V	Multilayer
C 59	= 2,2 nF		500 V	
C 60	= 1,0 nF		500 V	
C 61	= 33 nF		1000 V	Polyester
C 62	= 1,0 nF		50 V	
C 63	= 470 µF		25 V	
C 64	= 1,0 nF		50 V	
C 65	= 1,0 nF		50 V	
C 66	= 47 µF		25 V	
C 67	= 1,0 nF		50 V	
C 68	= 180 pF	N750	500V	
C 69	= 180 pF	N750	500V	
C 70	= 180 pF	N750	500V	
C 71	= 180 pF	N750	500V	
C 72	= 180 pF	N750	500V	
C 73	= 12 pF	NP0	500 V	
C 74	= 12 pF	NP0	500 V	
C 75	= 12 pF	NP0	500 V	
C 76	= 33 pF	NP0	500 V	
C 77	= 1,0 nF		50 V	
C 78	= 2,2 pF	NP0	50 V	
C 79	= 1,0 nF		50 V	
C 80	= 1,0 nF		50 V	
C 81	= 1,0 nF		50 V	
C 82	= 10 nF		50 V	
C 83	= 10 µF		16 V	
C 84	= 10 nF		50 V	
C 85	= 10 nF		50 V	
C 86	= 10 nF		50 V	
C 87	= 10 nF		50 V	
C 88	= 4,7 µF		16 V	
C 89	= 10 nF		50 V	
C 90	= 10 µF		16 V	
R 1	= 2,2 KΩ	¼ W		
R 2	= 2,2 KΩ	¼ W		
R 3	= 2,2 KΩ	¼ W		
R 4	= 12 KΩ	¼ W		
R 5	= 2,2 KΩ	¼ W		
R 6	= 1,0 KΩ	¼ W		

R 7 = 12 KΩ ¼ W
R 8 = 22 KΩ ¼ W
R 9 = 12 KΩ ¼ W
R 10 = 4,7 KΩ ¼ W
R 11 = 1,0 KΩ ¼ W
R 12 = 330 Ω 2 W
R 13 = 1,0 KΩ ¼ W
R 14 = 1,0 KΩ ¼ W
R 15 = Trimmer 4,7 KΩ
R 16 = 2,2 KΩ ¼ W
R 17 = 820 Ω ¼ W
R 18 = 1,0 Ω ½ W
R 19 = 470 Ω ¼ W
R 20 = 1,0 KΩ ¼ W
R 21 = 150 Ω ¼ W
R 22 = 120 Ω ¼ W
R 23 = 6,8 KΩ ¼ W
R 24 = 3,3 KΩ ¼ W
R 25 = 10 Ω ½ W
R 26 = 10 Ω ½ W
R 27 = 100 Ω 2 W
R 28 = 100 Ω ¼ W
R 29 = Trimmer 220 KΩ
R 30 = 180 Ω ¼ W
R 31 = 10 KΩ ¼ W
R 32 = 100 KΩ ¼ W
R 33 = 22 KΩ ¼ W
R 34 = 22 KΩ ¼ W
R 35 = 10 KΩ ¼ W
D 1 = D 2 = D 3 = D 4 = 1N4148
D 5 = Led (red)
D 6 = Led (yellow)
D 7 = Led (red)
D 8 = Led (green)
D 9 = D 10 = D 11 = D 12 = 1N4004
D 13 = Zener 5,1 V ½ W
D 14 = D 15 = D 16 = D 17 = 1N4148
D 18 = D 19 = D 20 = 1N5400
D 21 = D 22 = D 23 = 1N4148
D 24 = D 25 =D 26 = D 27 = Led (green)
D 28 = D 29 = D 30 = Led (green)
Tr 1 = BC 547
Tr 2 = BC 547
Tr 3 = BC 557
Tr 4 = TIP 142
Tr 5 = BC 547
Tr 6 = BD 175
Tr 7 = BF 966
Tr 8 = SD 1477
Tr 9 = SD 1477

Scr = C 102
Ic 1 = KA 2288
L 1 = 4 turns ϕ 5 mm wire ϕ 0,8 mm
L 2 = 4 turns ϕ 5 mm wire ϕ 0,8 mm
L 3 = Strip line
L 4 = Strip line
L 5 = Strip line
L 6 = VK 200
L 7 = VK 200
L 8 = VK 200
L 9 = VK 200
L 10 = 3 turns ϕ 8 mm wire ϕ 1,5 mm
L 11 = 2 turns wire ϕ 1,5 mm on ½ balum
L 12 = 2 turns wire ϕ 1,5 mm on ½ balum
L 13 = 3 turns ϕ 8 mm wire ϕ 1,5 mm
L 14 = Strip line
L 15 = Strip line
L 16 = Strip line
L 17 = Strip line
L 18 = Strip line
L 19 = 3 turns ϕ 6 mm wire ϕ 1,2 mm
Rl 1 = 4052 - 12
Rl 2 = 3022 - 12
Fuse = 2 x 12 A
S 1 = Switch 3A (FM - SSB)
S 2 = Switch 3A (Pre ON - OFF)
S 3 = Switch 3A (Lin ON - OFF)