



RM

Costruzioni Elettroniche

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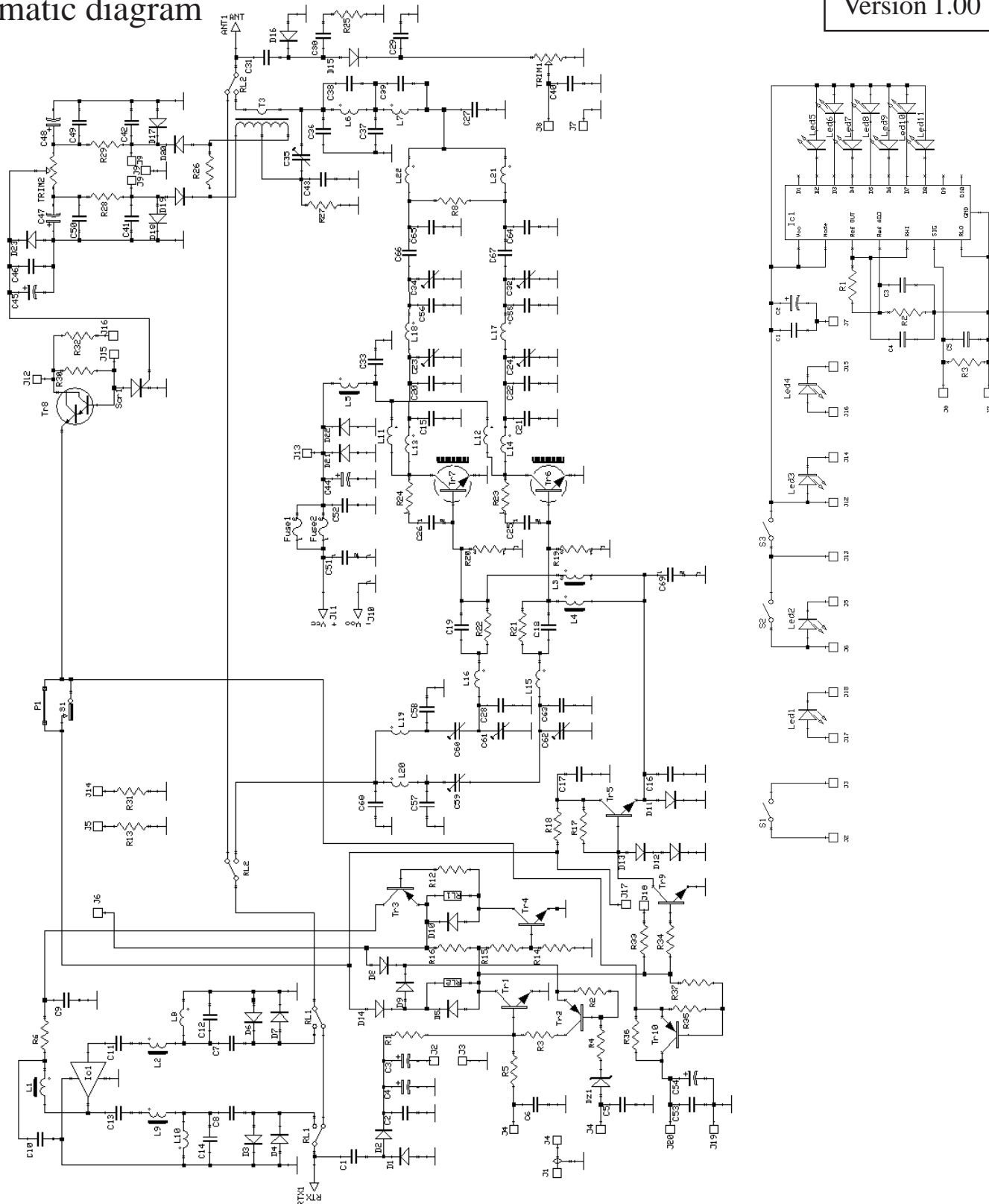
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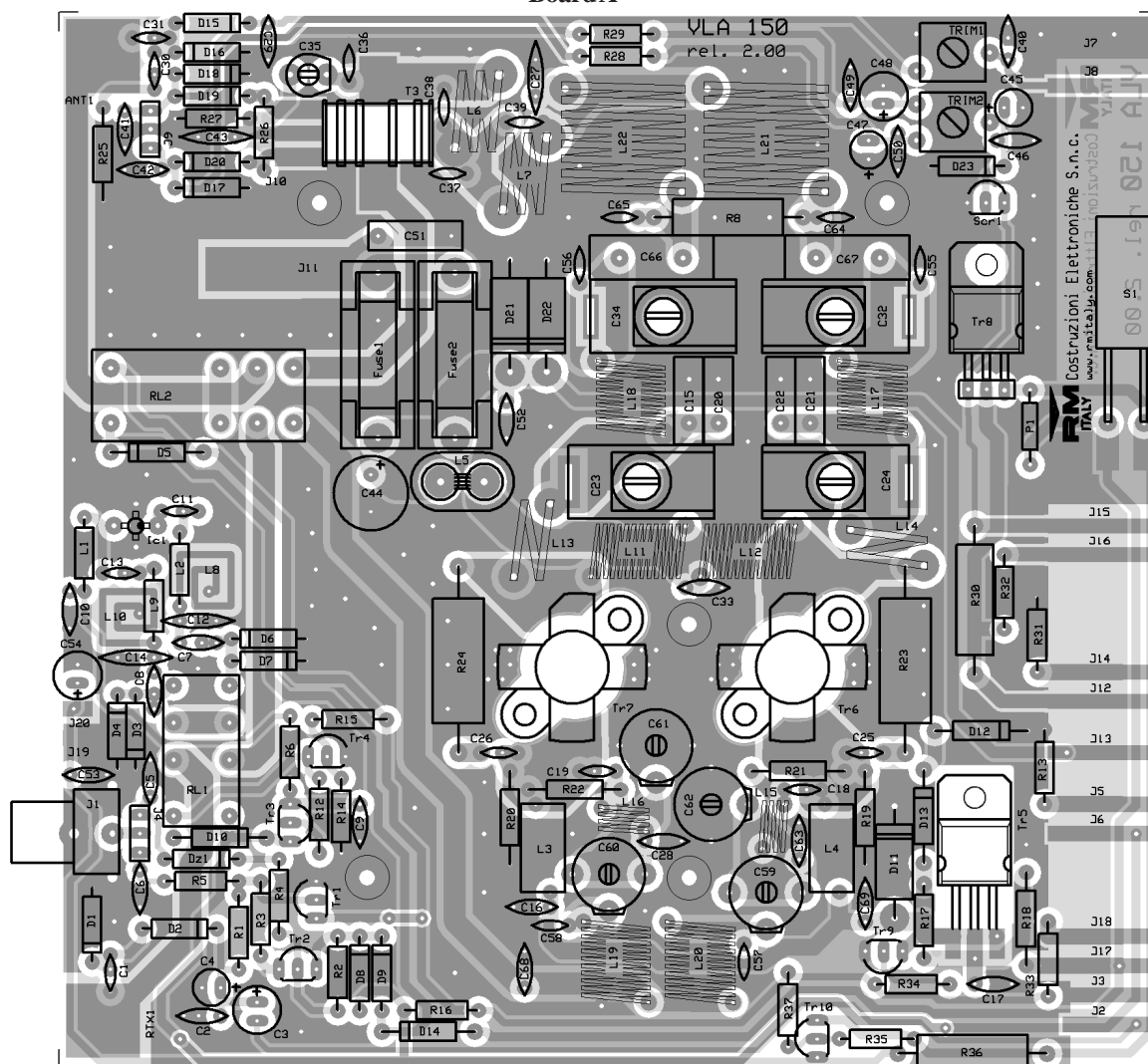
VLA 150 VHF linear amplifier

Schematic diagram

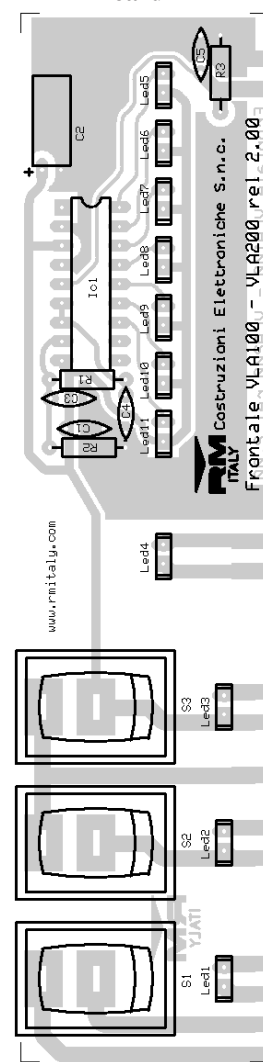
Version 1.00



Board A



Board B



List of components Board A

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

C ₃₉ = 12 pF	500 V	NP0	R ₃₁ = 1,0 KΩ	¼W
C ₄₀ = 10 nF	50 V		R ₃₂ = 1,0 KΩ	¼W
C ₄₁ = 100 nF	50 V		R ₃₃ = 1,0 KΩ	¼W
C ₄₂ = 100 nF	50 V		R ₃₄ = 10 KΩ	¼W
C ₄₃ = 120 pF	50 V	NP0	R ₃₅ = 470 Ω	¼W
C ₄₄ = 470 µF	25V		R ₃₆ = 68 Ω	2W
C ₄₅ = 10 µF	16V		R ₃₇ = 2,2 KΩ	¼W
C ₄₆ = 100 nF	50 V		TRIM ₁ = TRIM ₂ = 10 KΩ	PT10LV
C ₄₇ = 22 µF	16V		D ₁ = D ₂ = D ₃ = D ₄ = D ₆ = D ₇ = D ₈ = D ₉ =	1N4148
C ₄₈ = 33 µF	16V		D ₁₅ = D ₁₆ = D ₁₇ = D ₁₈ = D ₁₉ = D ₂₀ = D ₂₃ =	1N4148
C ₄₉ = 100 nF	50 V		D ₅ = D ₁₀ = D ₁₂ = D ₁₃ = D ₁₄ =	1N4007
C ₅₀ = 100 nF	50 V		D ₁₁ = D ₂₁ = D ₂₂ =	1N5400
C ₅₁ = 10 nF	250 V	Polyester	Dz ₁ = 7,5 V	½W
C ₅₂ = 100 nF	50 V		Tr ₁ = Tr ₄ = Tr ₉ =	BC 547
C ₅₃ = 100 nF	50 V		Tr ₂ = Tr ₃ =	BC 557
C ₅₄ = 33 µF	25V		Tr ₁₀ =	BC 327-25
C ₅₅ = 68 pF	500 V	NP0	Tr ₈ =	BDX 53 BFP
C ₅₆ = 68 pF	500 V	NP0	Tr ₅ =	BD 241 BFP
C ₅₇ = 47 pF	50 V	NP0	Tr ₆ = Tr ₇ =	SD 1406
C ₅₈ = 47 pF	50 V	NP0	Scr ₁ =	P0102
C ₅₉ = C ₆₀ = C ₆₁ = C ₆₂ = 6 - 60 pF	Philips Trimmer		Ic ₁ =	MAR-06
C ₆₃ = 180 pF	50 V	N750	L ₁ =	10 µH
C ₆₄ = 47 pF	500 V	NP0	L ₂ = L ₉ =	1,0 µH
C ₆₅ = 47 pF	500 V	NP0	L ₃ = L ₄ =	VK 200
C ₆₆ = 2200 pF	500 V	SilveredMica	L ₅ =	2 coil on ANRA 41 balun
C ₆₇ = 2200 pF	500 V	SilveredMica	L ₆ = L ₇ =	4 coil, wire ø 1.5 on ø 8 mm
C ₆₈ = 82 pF	50 V	NP0	L ₈ = L ₁₀ =	on board coil
C ₆₉ = 100 nF	50 V		L ₁₁ = L ₁₂ =	ANRA 455
R ₁ = R ₂ = R ₃ =	2,2 KΩ	¼W	L ₁₃ = L ₁₄ =	2 coil, wire ø 1.5 on ø 8 mm
R ₄ =	10 KΩ	¼W	L ₁₅ = L ₁₆ =	3 coil, wire ø 0.8 on ø 5 mm
R ₅ =	2,2 KΩ	¼W	L ₁₇ = L ₁₈ =	5 coil, wire ø 1.2 on ø 8 mm
R ₆ =	1,2 KΩ	¼W	L ₁₉ = L ₂₀ =	ANRA 309
R ₈ =	100 Ω	2W	L ₂₁ = L ₂₂ =	5 coil, wire ø 1.5 on ø 13 mm
R ₁₂ =	4,7 KΩ	¼W	T ₃ =	ANRA 700/12
R ₁₃ =	1,0 KΩ	¼W	Rl ₁ =	Relè 12 V 3022
R ₁₄ = R ₁₅ = R ₁₆ =	4,7 KΩ	¼W	Rl ₂ =	Relè 12 V 4152
R ₁₇ =	1,0 KΩ	¼W	Fuse ₁ = Fuse ₂ =	8 A
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		

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	