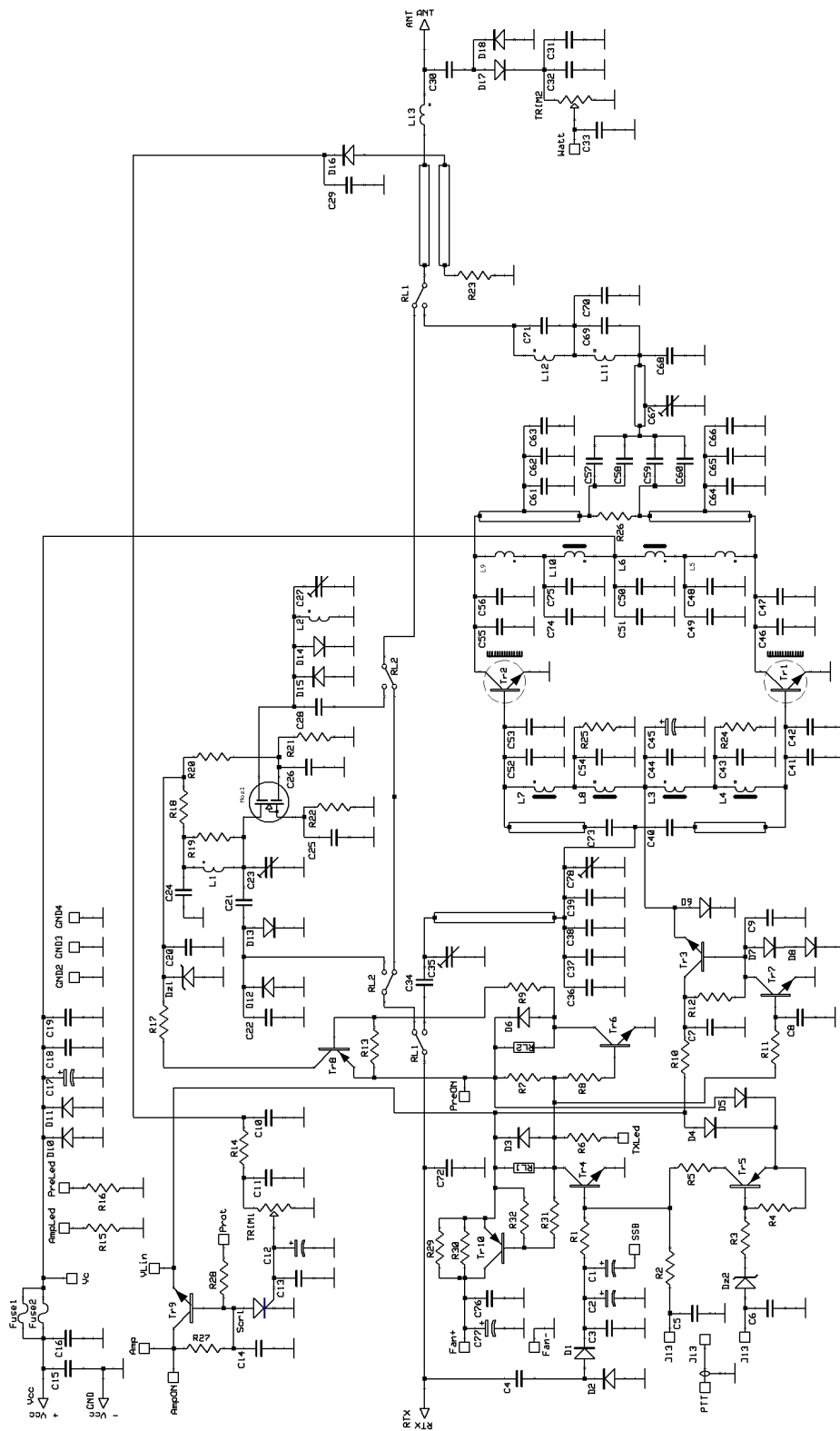
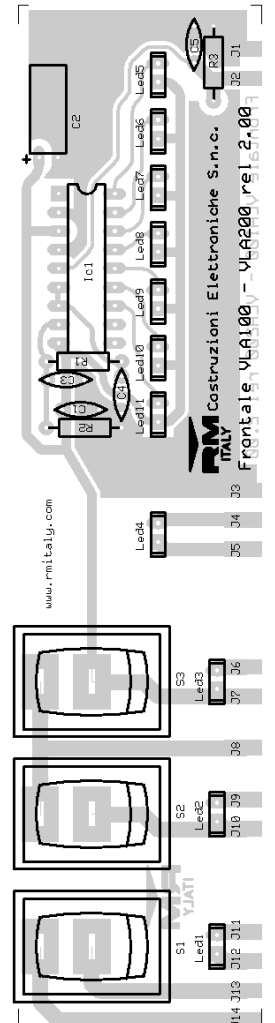
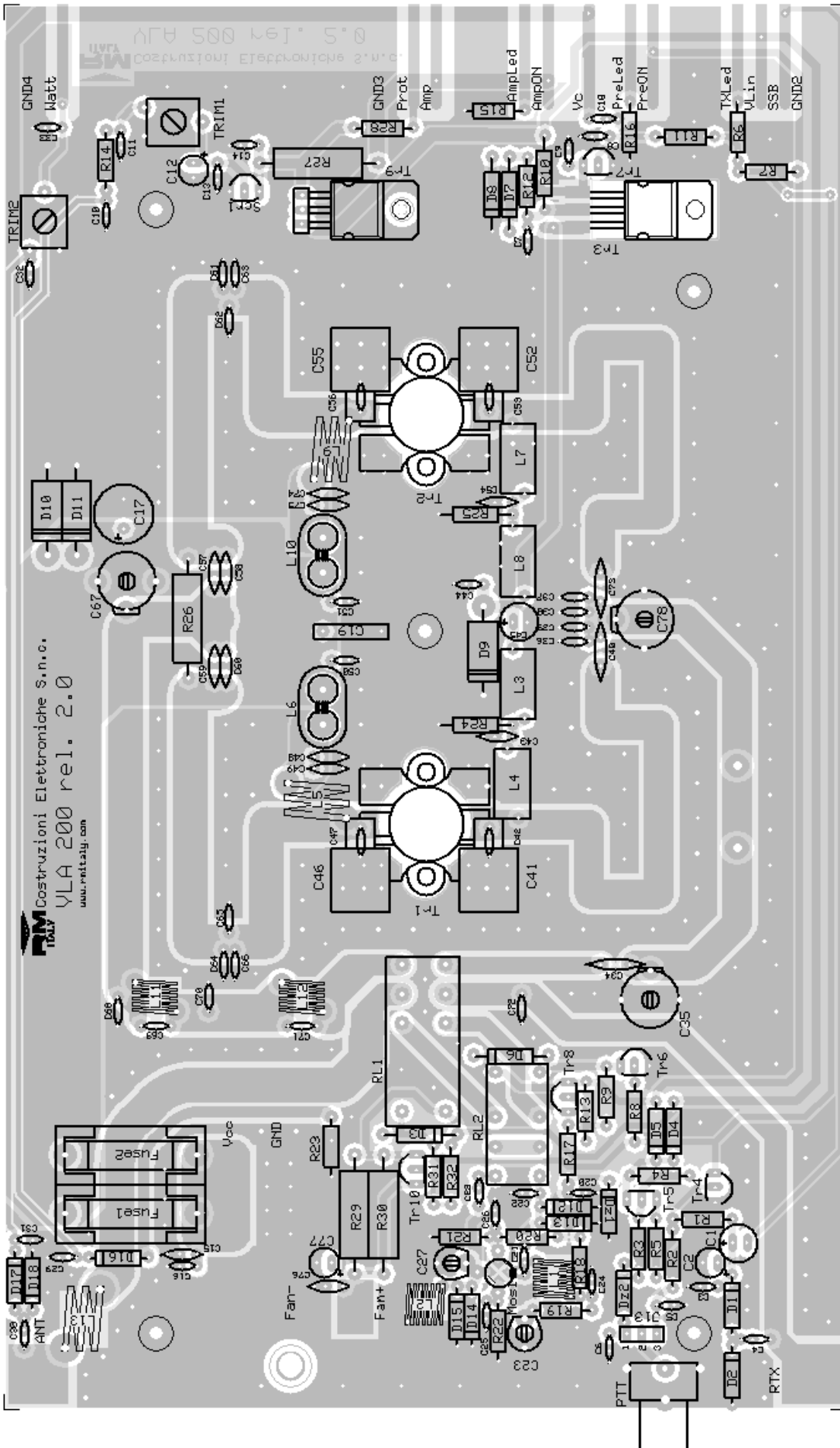



Mod. VLA 200 VHF linear amplifier

Schematic diagram

Version 2.00






Costruzioni Elettroniche S.n.c.
VLA 200 rel. 2.0
www.rmitaly.com


Costruzioni Elettroniche S.n.c.
Frontale_VLA100V-VLA200 rel. 2.00

List of components main board

C ₁	= 33 μ F	25 V		C ₄₉	= 2,2 nF	500 V	
C ₂	= 4,7 μ F	16 V		C ₅₀	= 220 nF	63 V	Multilayer
C ₃	= 1,0 nF	50 V		C ₅₁	= 220 nF	63 V	Multilayer
C ₄	= 2,2 pF	NP0 50 V		C ₅₂	= 390 pF	500 V	Mica
C ₅	= 1,0 nF	50 V		C ₅₃	= Not present		
C ₆	= 1,0 nF	50 V		C ₅₄	= 10 nF	50 V	
C ₇	= 1,0 nF	50 V		C ₅₅	= 390 pF	500 V	Mica
C ₈	= 1,0 nF	50 V		C ₅₆	= Not present		
C ₉	= 1,0 nF	50 V		C ₅₇	= 1,0 nF	500 V	
C ₁₀	= 1,0 nF	50 V		C ₅₈	= 1,0 nF	500 V	
C ₁₁	= 1,0 nF	50 V		C ₅₉	= 1,0 nF	500 V	
C ₁₂	= 10 μ F	25 V		C ₆₀	= 1,0 nF	500 V	
C ₁₃	= 1,0 nF	50 V		C ₆₁	= 33 pF	NP0 500 V	
C ₁₄	= 1,0 nF	50 V		C ₆₂	= 15 pF	NP0 500 V	
C ₁₅	= 10 nF	50 V		C ₆₃	= 33 pF	NP0 500 V	
C ₁₆	= 220 nF	63 V	Multilayer	C ₆₄	= 33 pF	NP0 500 V	
C ₁₇	= 470 μ F	25 V		C ₆₅	= 15 pF	NP0 500 V	
C ₁₈	= 1,0 nF	50 V		C ₆₆	= 33 pF	NP0 500 V	
C ₁₉	= 100 nF	100 V	Polyester	C ₆₇	= Trimmer	10 - 80 pF	
C ₂₀	= 1,0 nF	50 V		C ₆₈	= 22 pF	NP0 500 V	
C ₂₁	= 4,7 pF	NP0 50 V		C ₆₉	= 8,2 pF	NP0 500 V	
C ₂₂	= 4,7 pF	NP0 50 V		C ₇₀	= 15 pF	NP0 500 V	
C ₂₃	= Trimmer	3 - 10 pF Bianco		C ₇₁	= 8,2 pF	NP0 500 V	
C ₂₄	= 1,0 nF	50 V		C ₇₂	= Not present		
C ₂₅	= 1,0 nF	50 V		C ₇₃	= 470 pF	N750 50 V	
C ₂₆	= 1,0 nF	50 V		C ₇₄	= 2,2 nF	500 V	
C ₂₇	= Trimmer	5 - 20 pF Rosso		C ₇₅	= 1,0 nF	500 V	
C ₂₈	= 3,9 pF	NP0 50 V		C ₇₆	= 10 nF	50 V	
C ₂₉	= 1,0 nF	50 V		C ₇₇	= 10 μ F	25 V	
C ₃₀	= 2,2 pF	NP0 50 V		C ₇₈	= Not present		
C ₃₁	= 1,0 nF	50 V		R ₁	= 2,2 K Ω	1/4 W	
C ₃₂	= 1,0 nF	50 V		R ₂	= 2,2 K Ω	1/4 W	
C ₃₃	= 1,0 nF	50 V		R ₃	= 12 K Ω	1/4 W	
C ₃₄	= 470 pF	N750 50 V		R ₄	= 2,2 K Ω	1/4 W	
C ₃₅	= Trimmer	10 - 80 pF		R ₅	= 2,2 K Ω	1/4 W	
C ₃₆	= 33 pF	NP0 500 V		R ₆	= 1,0 K Ω	1/4 W	
C ₃₇	= 33 pF	NP0 500 V		R ₇	= 4,7 K Ω	1/4 W	
C ₃₈	= 22 pF	NP0 500 V		R ₈	= 8,2 K Ω	1/4 W	
C ₃₉	= 22 pF	NP0 500 V		R ₉	= 2,2 K Ω	1/4 W	
C ₄₀	= 470 pF	N750 50 V		R ₁₀	= 1,0 Ω	1/2 W	
C ₄₁	= 390 pF	500 V	Mica	R ₁₁	= 12 K Ω	1/4 W	
C ₄₂	= Not present			R ₁₂	= 820 Ω	1/4 W	
C ₄₃	= 10 nF	50 V		R ₁₃	= 470 Ω	1/4 W	
C ₄₄	= 1,0 nF	50 V		R ₁₄	= 22 K Ω	1/4 W	
C ₄₅	= 47 μ F	25 V		R ₁₅	= 1,0 K Ω	1/4 W	
C ₄₆	= 390 pF	500 V	Mica	R ₁₆	= 1,0 K Ω	1/4 W	
C ₄₇	= Not present			R ₁₇	= 470 Ω	1/4 W	
C ₄₈	= 1,0 nF	500 V		R ₁₈	= 150 Ω	1/4 W	

R₁₉ = 1,0 K Ω ¼ W
 R₂₀ = 6,8 K Ω ¼ W
 R₂₁ = 3,3 K Ω ¼ W
 R₂₂ = 220 Ω ¼ W
 R₂₃ = 100 Ω ¼ W
 R₂₄ = 10 Ω ½ W
 R₂₅ = 10 Ω ½ W
 R₂₆ = 100 Ω 2 W
 R₂₇ = 330 Ω 2 W
 R₂₈ = 1,0 K Ω ¼ W
 R₂₉ = 68 Ω 2 W
 R₃₀ = 68 Ω 2 W
 R₃₁ = 2,2 K Ω ¼ W
 R₃₂ = 470 Ω ¼ W
 TRIM₁ = Trimmer 4,7 K Ω
 TRIM₂ = Trimmer 4,7 K Ω
 D₁ = D₂ = 1N4148
 D₃ = 1N4007
 D₄ = D₅ = 1N4148
 D₆ = D₇ = D₈ = 1N4007
 D₉ = D₁₀ = D₁₁ = 1N5400
 D₁₂ = D₁₃ = D₁₄ = D₁₅ = D₁₆ = D₁₇ = D₁₈ = 1N4148
 Dz₁ = Zener 5,1 V ½ W
 Dz₂ = Zener 7,5 V ½ W
 Tr₁ = Tr₂ = SD 1477
 Tr₃ = BD 241 BFP
 Tr₄ = BC 547
 Tr₅ = BC 557
 Tr₆ = Tr₇ = BC 547
 Tr₈ = BC 327
 Tr₉ = BDX 53 BFP
 Tr₁₀ = BC 327
 Scr₁ = P 0102
 Mos₁ = BF 966
 L₁ = 4 turns ϕ 5 mm wire ϕ 0,8 mm
 L₂ = 3 turns ϕ 5 mm wire ϕ 0,8 mm
 L₃ = L₄ = VK 200
 L₅ = 3 turns ϕ 8 mm wire ϕ 1,5 mm
 L₆ = 2 turns 3 wire ϕ 0.63 mm on ½ balum
 L₇ = L₈ = VK 200
 L₉ = 3 turns ϕ 8 mm wire ϕ 1,5 mm
 L₁₀ = 2 turns 3 wire ϕ 0.63 mm on ½ balum
 L₁₁ = L₁₂ = 2 turns ϕ 6 mm wire ϕ 1,2 mm
 L₁₃ = 2 turns ϕ 7 mm wire ϕ 2,0 mm
 Rl₁ = 4152.9.012
 Rl₂ = 3022.7.012
 Fuse₁ = 12 A
 Fuse₂ = 12 A

List of components front board

C₁ = 10 nF 50 V
 C₂ = 10 μ F 16 V
 C₃ = 10 nF 50 V
 C₄ = 10 nF 50 V
 C₅ = 10 nF 50 V
 R₁ = 1,0 K Ω ¼ W
 R₂ = 8,2 K Ω ¼ W
 R₃ = 4,7 K Ω ¼ W
 Led₁ = Red (TX)
 Led₂ = Yellow (Pre ON)
 Led₃ = Green (Lin ON)
 Led₄ = Red (Protection)
 Led₅ to Led₁₁ = Green (Wattmeter)
 Ic₁ = LM 3915