



Costruzioni Elettroniche

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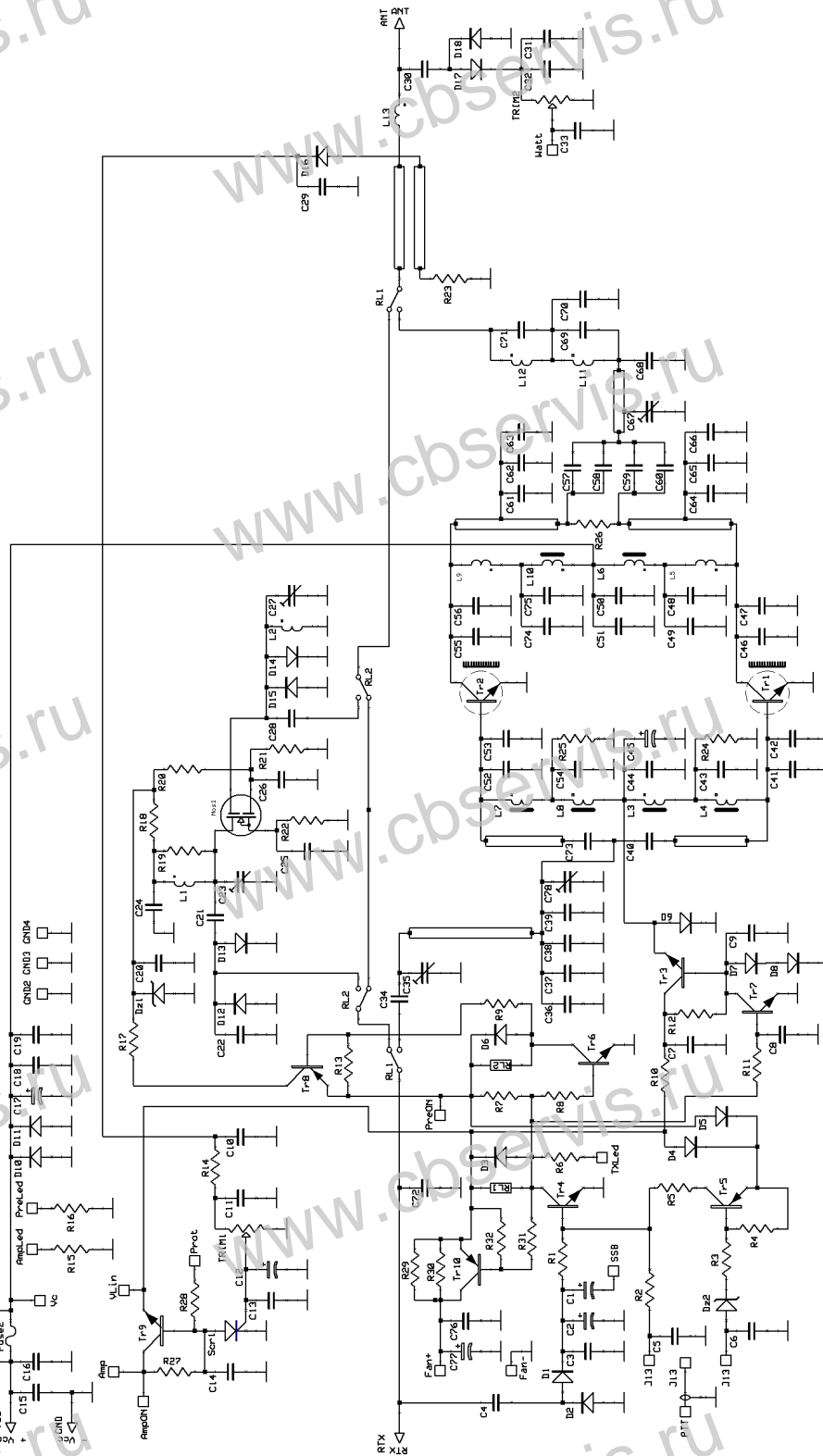
E-MAIL ufftec@rmitaly.com

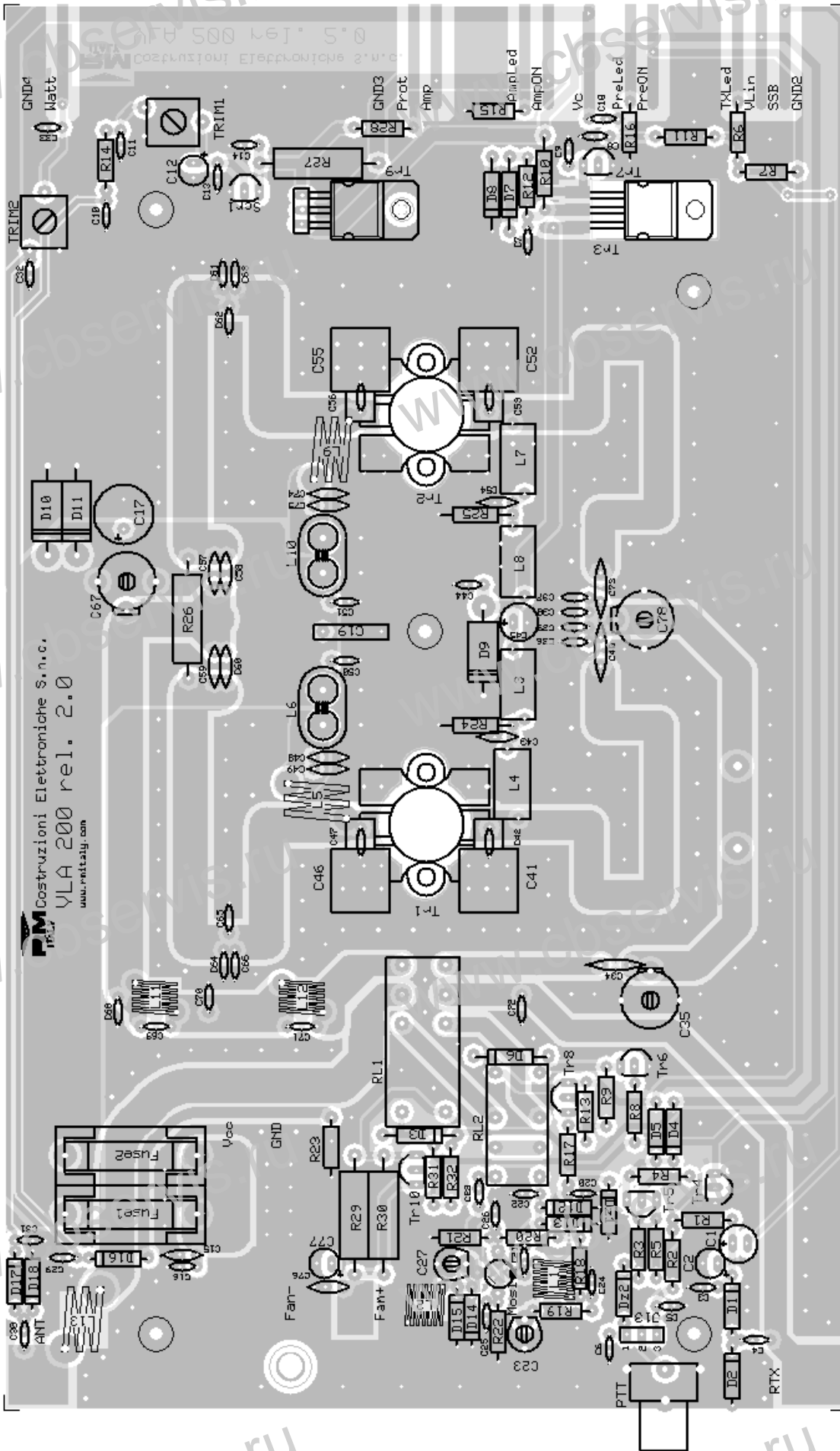
http://www.rmitaly.com

Mod. VLA 200 VHF linear amplifier

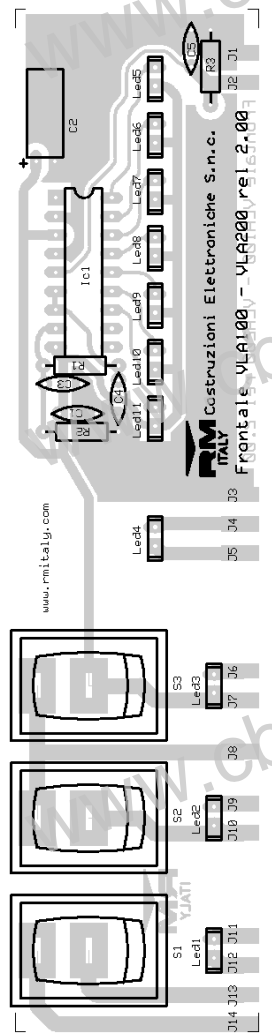
Schematic diagram

Version 2.00





RM Costruzioni Elettroniche S.n.c.
 VLA 200 rel. 2.00
 www.rmitaly.com



RM Costruzioni Elettroniche S.n.c.
 Frontale VLA100 - VLA200 rel. 2.00
 www.rmitaly.com

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
 RI₁ = 4152.9.012
 RI₂ = 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