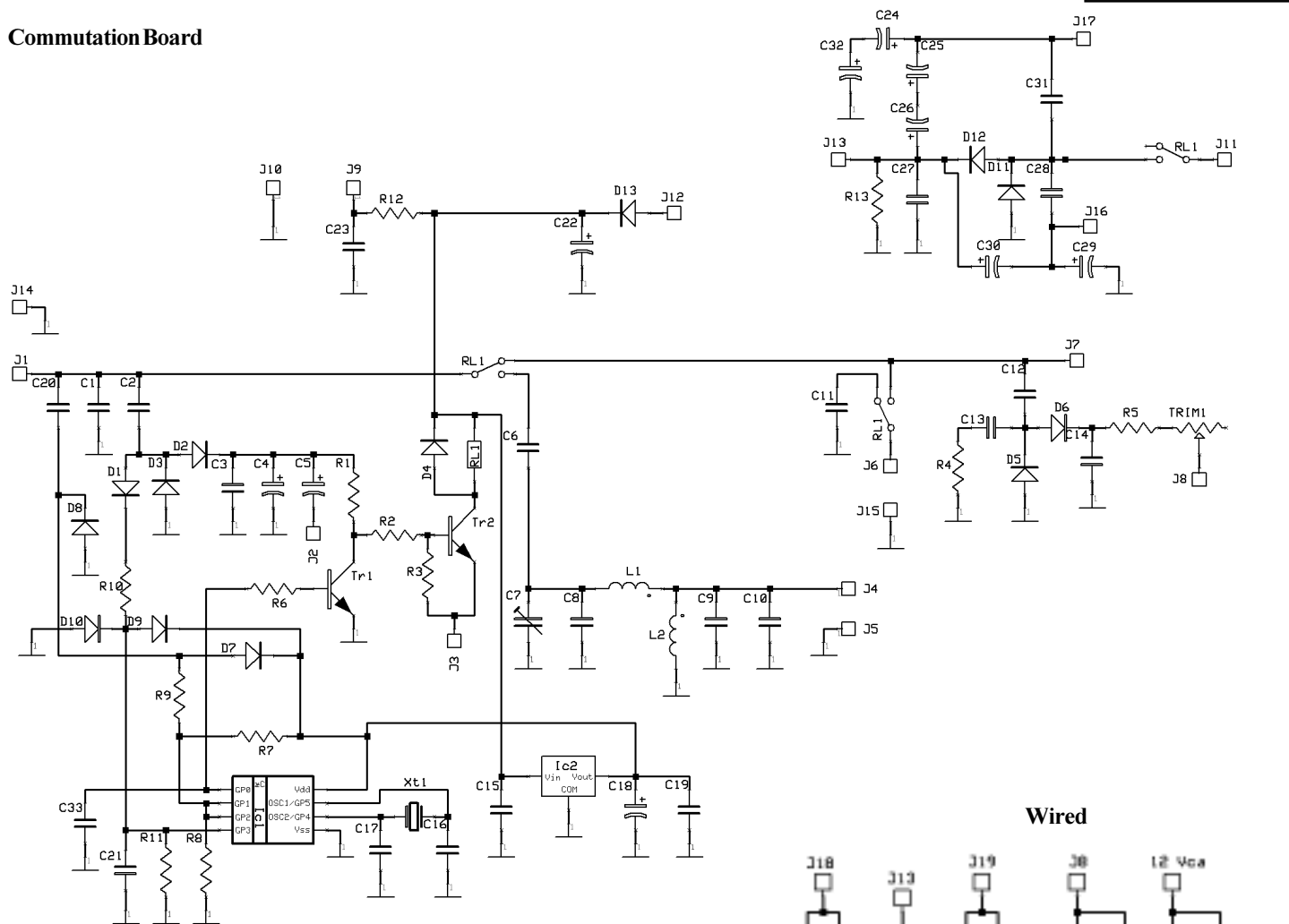


Mod. KLV 400 linear amplifier

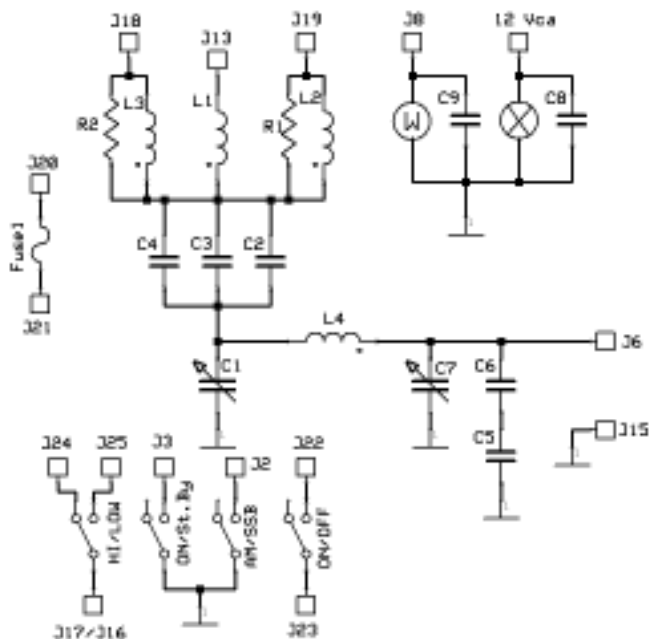
Schematic diagram

Version 5.00

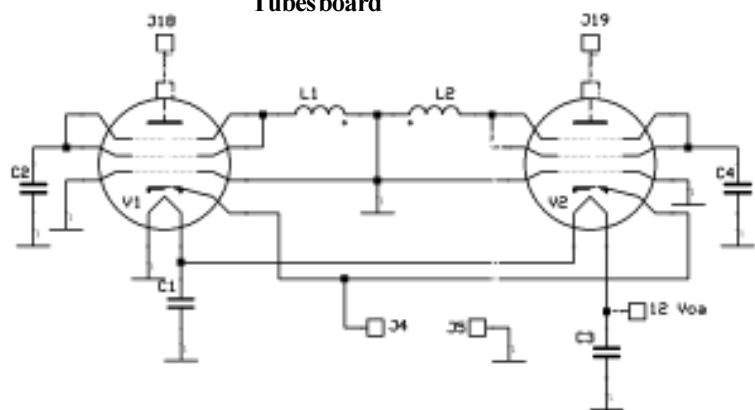
Commutation Board



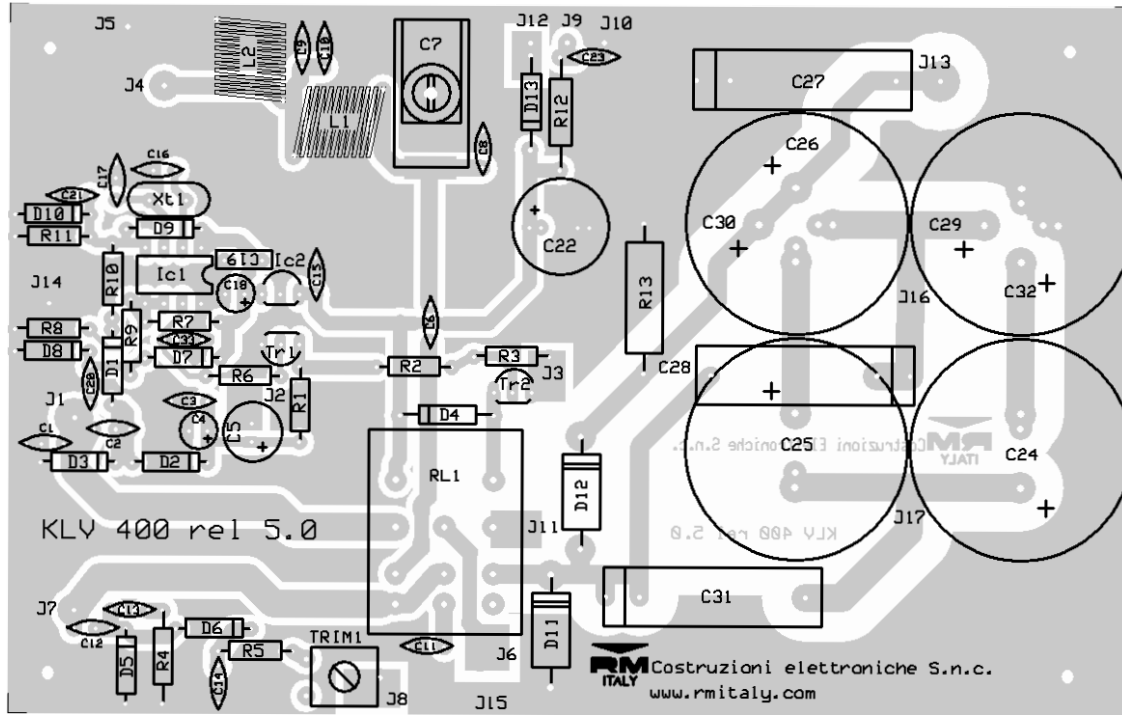
Wired



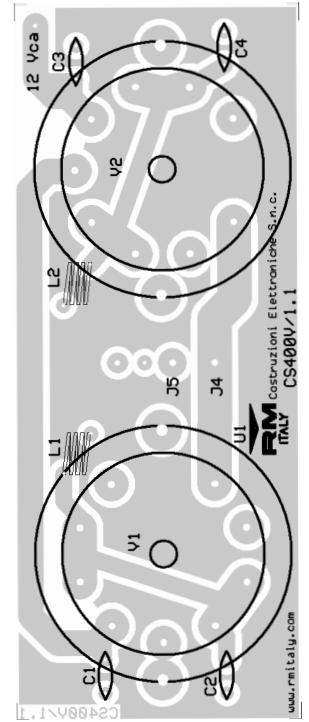
Tubesboard



Commutation Board



Tubesboard



List of components

Commutation board

C ₁ = 27 pF	50 V		C _{30*} = 100 μF	450 V
C ₂ = 8,2 pF	50 V		C _{31*} = 470 nF	630 V~
C ₃ = 100 nF	50 V		C _{32*} = 470 μF	200 V
C ₄ = 10 μF	16 V		C ₃₃ = 10 nF	50 V
C ₅ = 47 μF	16 V		R ₁ = 1,0 KΩ	¼W
C ₆ = 10 nF	50 V		R ₂ = 1,0 KΩ	¼W
C ₇ = Trimmer	10-80 pF		R ₃ = 4,7 KΩ	¼W
C ₈ = 120 pF	50 V	N750	R ₄ = 27 Ω	½W
C ₉ = 150 pF	50 V	N750	R ₅ = 47 KΩ	¼W
C ₁₀ = 270 pF	50 V	N750	R ₆ = 1,0 KΩ	¼W
C ₁₁ = 470 pF	50 V	N750	R ₇ = 10 KΩ	¼W
C ₁₂ = 2,2 pF	50 V		R ₈ = 10 KΩ	¼W
C ₁₃ = 33 pF	50 V		R ₉ = 100 Ω	¼W
C ₁₄ = 100 nF	50 V		R ₁₀ = 56 KΩ	¼W
C ₁₅ = 100 nF	50 V		R ₁₁ = 1,0 MΩ	¼W
C ₁₆ = 27 pF	50 V		R ₁₂ = 47 Ω	1W
C ₁₇ = 27 pF	50 V		R ₁₃ = 470 KΩ	2W
C ₁₈ = 22 μF	16 V		TRIM ₁ = Trimmer	220 KΩ
C ₁₉ = 100 nF	50 V	polyester	D ₁ = 1N4148	
C ₂₀ = 3,3 pF	50 V		D ₂ = 1N4148	
C ₂₁ = 10 nF	50 V		D ₃ = 1N4148	
C ₂₂ = 470 μF	25 V		D ₄ = 1N4004	
C ₂₃ = 100 nF	50 V		D ₅ = 1N4148	
C _{24*} = 470 μF	200 V		D ₆ = 1N4148	
C _{25*} = 470 μF	200 V		D ₇ = 1N4148	
C _{26*} = 470 μF	200 V		D ₈ = 1N4148	
C ₂₇ = 22 nF	1000 V		D ₉ = 1N4148	
C _{28*} = 470 nF	630 V~		D ₁₀ = 1N4148	
C _{29*} = 100 μF	450 V		D ₁₁ = BY 255	
			D ₁₂ = BY 255	

D₁₃ = 1N4004
 Tr₁ = BC 547
 Tr₂ = BC 547
 Ic₁ = PIC RM1
 Ic₂ = LM 78L05
 Xt₁ = 4,0 MHz
 Rl₁ = Relè 12 V 5513
 L₁ = ANRA 309 7 turns ϕ 8 mm wire ϕ 0.8 mm
 L₂ = ANRA 309/1 9 turns ϕ 8 mm wire ϕ 0.8 mm

* You can found both group of capacitors

C₂₄, C₂₅, C₂₆, C₂₇, C₃₂ **or** C₂₈, C₂₉, C₃₀

Tubesboard

V₁ = EL 509 - EL 519
 V₂ = EL 509 - EL 519
 C₁ = 100 nF 50 V
 C₂ = 270 pF 500 V N750
 C₃ = 100 nF 50 V
 C₄ = 270 pF 500 V N750
 L₁ = ANRA 309/2 3 turns ϕ 6 mm wire ϕ 0.8 mm
 L₂ = ANRA 309/2 3 turns ϕ 6 mm wire ϕ 0.8 mm

Wired

C₁ = Variable capacitor 50 pF
 C₂ = 2,2 nF 1000V
 C₃ = 2,2 nF 1000V
 C₄ = 2,2 nF 1000V
 C₅ = 220 pF 500 V N750
 C₆ = 220 pF 500 V N750
 C₇ = Variable capacitor 350 pF
 C₈ = 270 pF 500 V N750
 C₉ = 270 pF 500 V N750
 L₁ = IMP 271100001 RF impedance block
 L₂ = 3 turns wire ϕ 0.8 mm Wound on resistor R₁
 L₃ = 3 turns wire ϕ 0.8 mm Wound on resistor R₂
 L₄ = 7 turns ϕ 22 mm wire ϕ 2.0 mm
 Fuse₁ = 3A