



RM

Costruzioni Elettroniche

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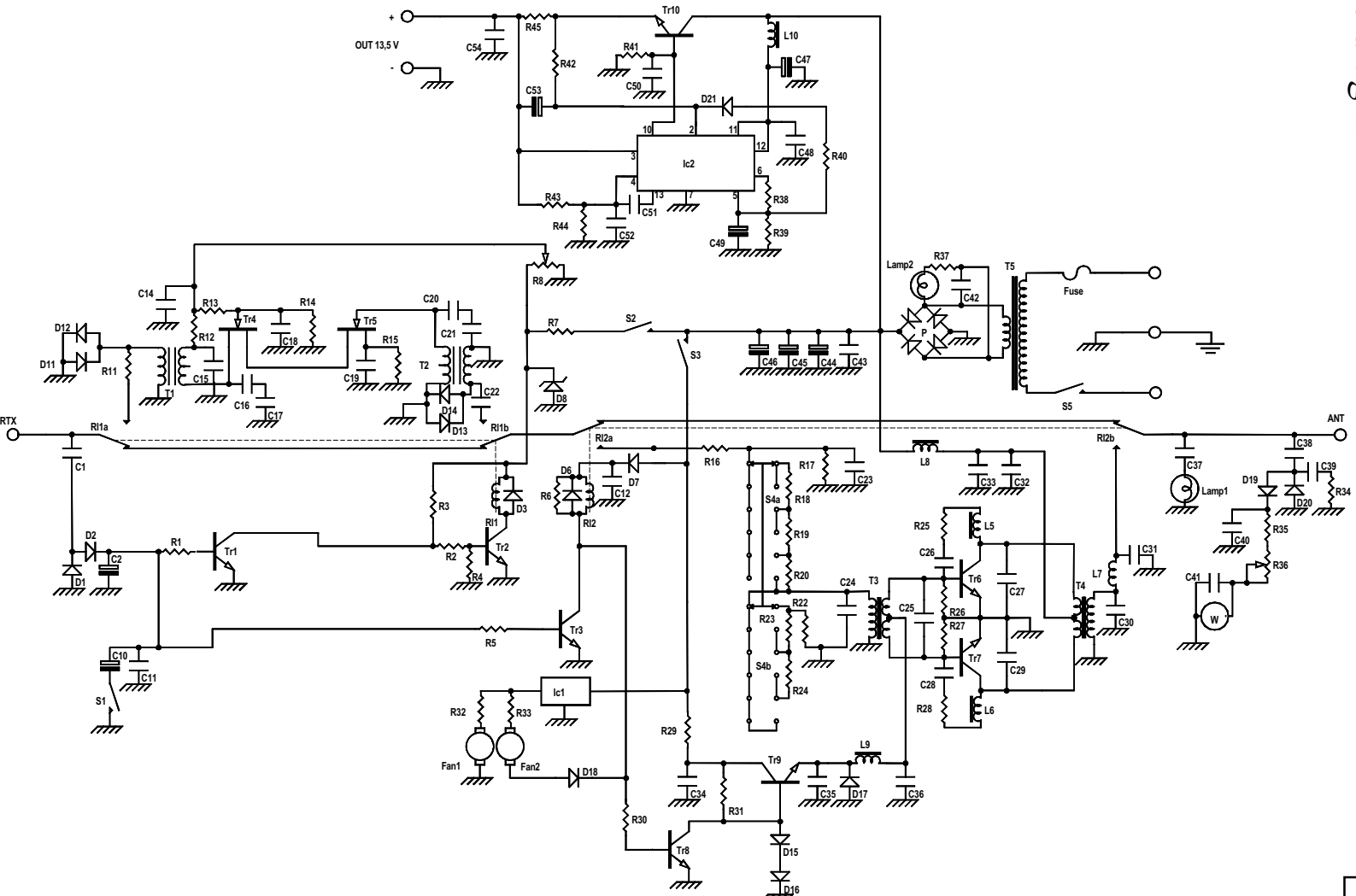
E-MAIL uffec@rmitaly.com

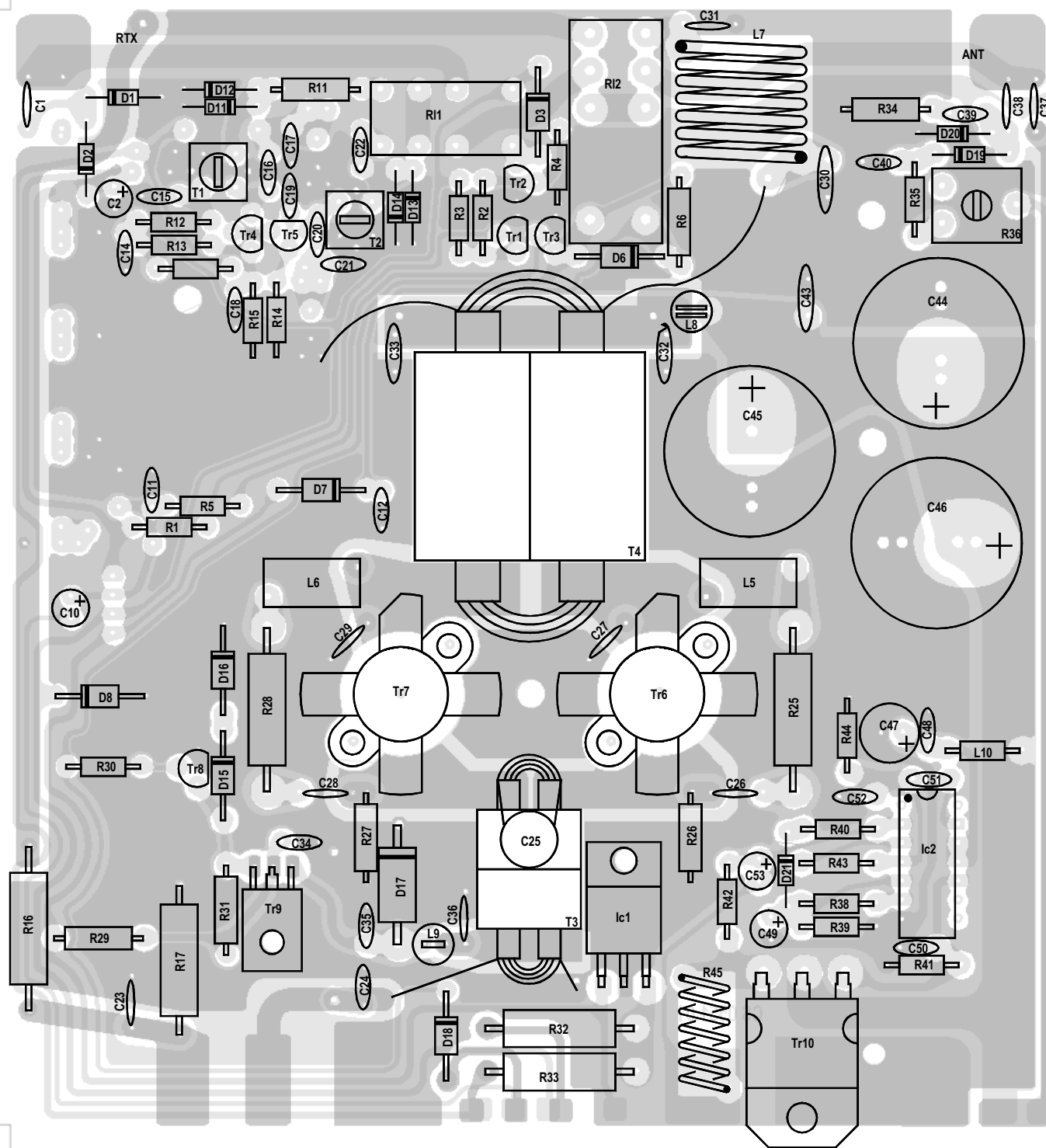
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KLV 550 linear amplifier

Schematic diagram

Version 3.00





List of components

C 1	= 8,2 pF	50 V	NP0
C 2	= 4,7 μ F	16 V	
C 10	= 33 μ F	16 V	
C 11	= 100 nF	50 V	
C 12	= 10 nF	50 V	
C 14	= 10 nF	50 V	
C 15	= 10 nF	50 V	
C 16	= 33 pF	50 V	N750

C 17	= 10 nF	50 V	
C 18	= 10 nF	50 V	
C 19	= 10 nF	50 V	
C 20	= 27 pF	50 V	N750
C 21	= 10 nF	50 V	
C 22	= 10 nF	50 V	
C 23	= 47 pF	50 V	N750
C 24	= 100 pF	50 V	NP0
C 25	= 3 x 470 pF	50 V	N750

C ₂₆ = 47 nF	50 V			R ₂₃ = 47 Ω	2W
C ₂₇ = 220 pF	500 V	N750		R ₂₄ = 100 Ω	2W
C ₂₈ = 47 nF	50 V			R ₂₅ = 120 Ω	2W
C ₂₉ = 220 pF	500 V	N750		R ₂₆ = 10 Ω	½W
C ₃₀ = 100 pF	500 V	N750		R ₂₇ = 10 Ω	½W
C ₃₁ = 47 pF	1000 V	N750		R ₂₈ = 120 Ω	2W
C ₃₂ = 100 nF	50 V			R ₂₉ = 1,0 Ω	½W
C ₃₃ = 100 nF	50 V			R ₃₀ = 12 KΩ	¼W
C ₃₄ = 100 nF	50 V			R ₃₁ = 3,3 KΩ	¼W
C ₃₅ = 100 nF	50 V			R ₃₂ = 68 Ω	3W
C ₃₆ = 10 nF	50 V			R ₃₃ = 68 Ω	3W
C ₃₇ = 3,3 pF	50 V	NP0		R ₃₄ = 27 Ω	½W
C ₃₈ = 2,2 pF	50 V	NP0		R ₃₅ = 47 KΩ	¼W
C ₃₉ = 33 pF	50 V	N750		R ₃₆ = Trimmer	220 KΩ
C ₄₀ = 100 nF	50 V			R ₃₇ = 330 Ω	2W
C ₄₁ = 100 nF	50 V			R ₃₈ = 1,2 KΩ	¼W
C ₄₂ = 470 nF	63 V ~			R ₃₉ = 3,9 KΩ	¼W
C ₄₃ = 100 nF	50 V			R ₄₀ = 470 Ω	¼W
C ₄₄ = 4700 µF	50 V			R ₄₁ = 2,2 KΩ	¼W
C ₄₅ = 4700 µF	50 V			R ₄₂ = 470 Ω	¼W
C ₄₆ = 4700 µF	50 V			R ₄₃ = 82 KΩ	¼W
C ₄₇ = 47 µF	50 V			R ₄₄ = 56 KΩ	¼W
C ₄₈ = 100 nF	50 V			R ₄₅ = 9 turns	φ 5 mm resistive wire φ 0.8
C ₄₉ = 2,2 µF	16 V			D ₁ = 1N4148	
C ₅₀ = 100 nF	50 V			D ₂ = 1N4148	
C ₅₁ = 470 pF	50 V			D ₃ = 1N4002	
C ₅₂ = 150 pF	50 V			D ₆ = 1N4002	
C ₅₃ = 2,2 µF	16 V			D ₇ = 1N4002	
C ₅₄ = 100 nF	50 V			D ₈ = Zener 12 V	1,3 W
R ₁ = 2,2 KΩ	¼W			D ₁₁ = 1N4148	
R ₂ = 4,7 KΩ	¼W			D ₁₂ = 1N4148	
R ₃ = 4,7 KΩ	¼W			D ₁₃ = 1N4148	
R ₄ = 680 Ω	¼W			D ₁₄ = 1N4148	
R ₅ = 2,2 KΩ	¼W			D ₁₅ = 1N4002	
R ₆ = 1,2 KΩ	½W			D ₁₆ = 1N4002	
R ₇ = 330 Ω	2W			D ₁₇ = 1N5400	
R ₈ = Potentiometer	4,7 KΩ			D ₁₈ = 1N4002	
R ₁₁ = 18 Ω	½W			D ₁₉ = 1N4148	
R ₁₂ = 470 Ω	¼W			D ₂₀ = 1N4148	
R ₁₃ = 56 KΩ	¼W			D ₂₁ = 1N4148	
R ₁₄ = 22 KΩ	¼W			P = Bridge	60 V 25 A
R ₁₅ = 180 Ω	¼W			Tr ₁ = BC 547	
R ₁₆ = 15 Ω	2W			Tr ₂ = BC 547	
R ₁₇ = 180 Ω	2W			Tr ₃ = BC 337	
R ₁₈ = 10 Ω	2W			Tr ₄ = BF 245	
R ₁₉ = 10 Ω	2W			Tr ₅ = BF 245	
R ₂₀ = 10 Ω	2W			Tr ₆ = SD 1407	
R ₂₂ = 27 Ω	2W			Tr ₇ = SD 1407	

Tr₈ = BC 547
Tr₉ = BD 179
Tr₁₀ = TIP 142
Ic₁ = LM 7824
Ic₂ = LM 723
L₅ = VK 200 normal
L₆ = VK 200 normal
L₇ = 6 turns ϕ 15 mm wire ϕ 1,5 mm
L₈ = VK 200 2 wires
L₉ = VK 200 1 wire
L₁₀ = 10 μ H
Rl₁ = Relè 12 V 3022
Rl₂ = Relè 24 V 4052
Fuse = 4 A
Lamp₁ = 24 V
Lamp₂ = Meter lamp
S₁ = Switch 3A (AM - SSB)
S₂ = Switch 3A (Pre ON)
S₃ = Switch 3A (St. By)
S₄ = Switch 6 positions
S₅ = Switch 3A (ON - OFF)
T₁ = T₂ = Transformers 30 MHz
T₃ = Input transformer
T₄ = Output transformer
T₅ = Transformer IN 220 OUT 24 V
Fan₁ = Fan₂ = Fans 12 V