



RM

Costruzioni Elettroniche

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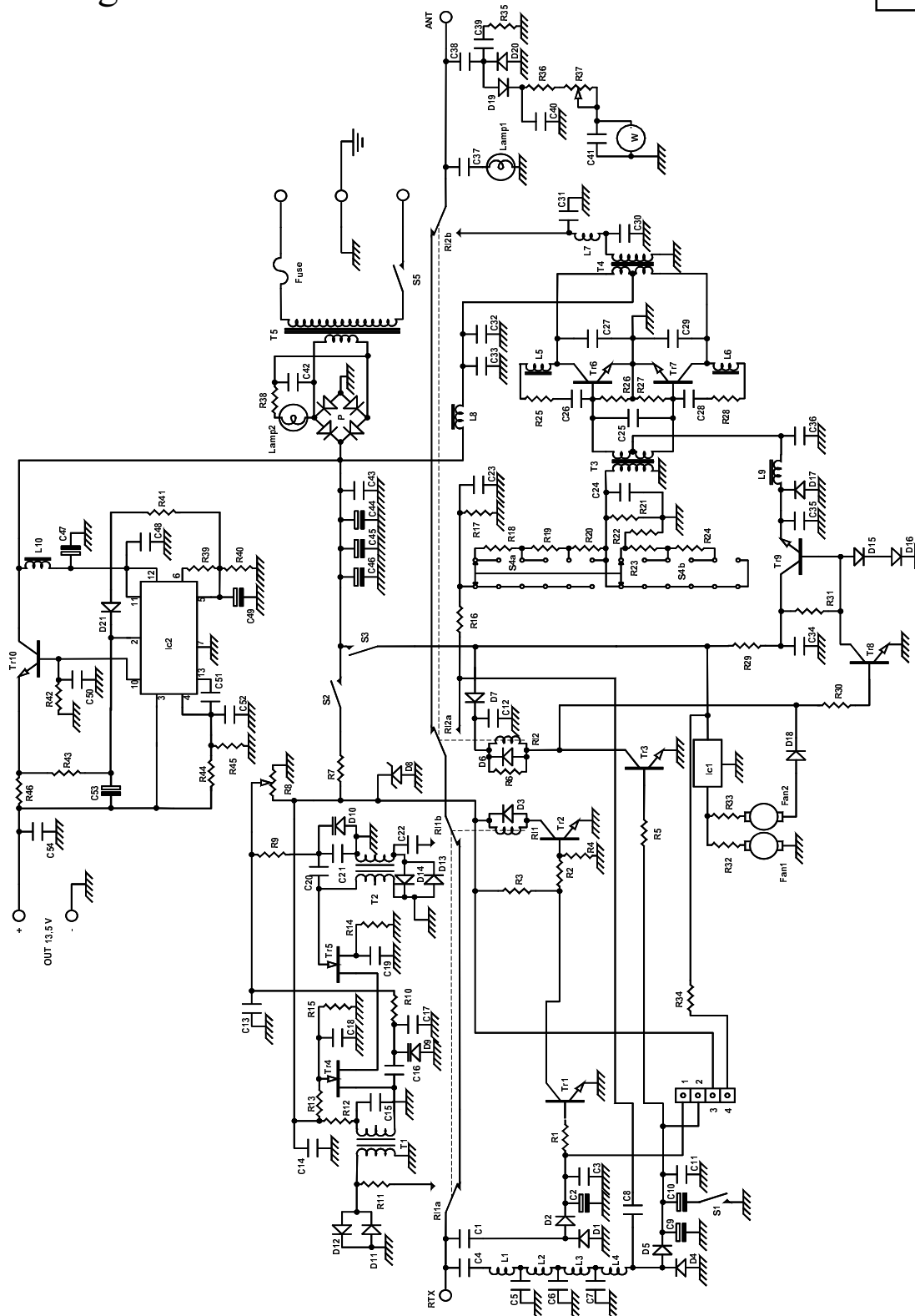
E-MAIL ufftec@rmitaly.com

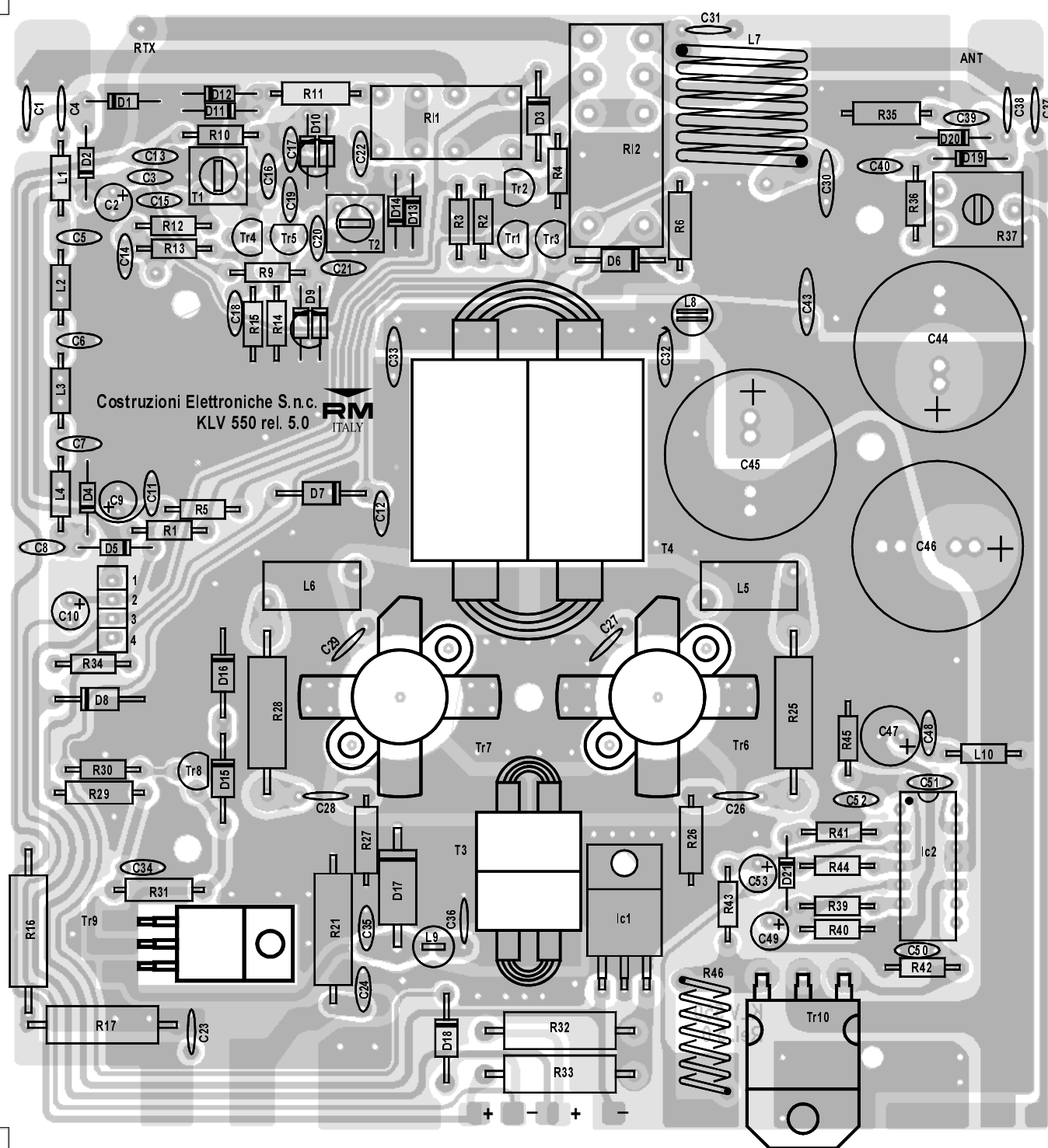
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KLV 550 linear amplifier

Schematic diagram

Version 5.00





List of components

C 1	= 3,3 pF	50 V	NP0
C 2	= 10 μ F	16 V	
C 3	= 10 nF	50 V	
C 4	= 3,3 pF	50 V	NP0
C 5	= 100 pF	50 V	NP0
C 6	= 100 pF	50 V	NP0
C 7	= 100 pF	50 V	NP0
C 8	= 5,6 pF	50 V	NP0

C 9	= 2,2 μ F	16 V	
C 10	= 33 μ F	16 V	
C 11	= 100 nF	50 V	
C 12	= 10 nF	50 V	
C 13	= 10 nF	50 V	
C 14	= 10 nF	50 V	
C 15	= 10 nF	50 V	
C 16	= 10 nF	50 V	
C 17	= 10 pF	50 V	NP0

C ₁₈ = 10 nF	50 V		R ₁₃ = 56 KΩ	¼W
C ₁₉ = 10 nF	50 V		R ₁₄ = 180 Ω	¼W
C ₂₀ = 10 nF	50 V		R ₁₅ = 22 KΩ	¼W
C ₂₁ = 10 pF	50 V	N750	R ₁₆ = 15 Ω	2W
C ₂₂ = 10 nF	50 V		R ₁₇ = 180 Ω	2W
C ₂₃ = 47 pF	50 V	N750	R ₁₈ = 10 Ω	2W
C ₂₄ = 100 pF	50 V	NP0	R ₁₉ = 10 Ω	2W
C ₂₅ = 3 x 470 pF	50 V	N750	R ₂₀ = 10 Ω	2W
C ₂₆ = 47 nF	50 V		R ₂₂ = 27 Ω	2W
C ₂₇ = 220 pF	500 V	N750	R ₂₃ = 47 Ω	2W
C ₂₈ = 47 nF	50 V		R ₂₄ = 100 Ω	2W
C ₂₉ = 220 pF	500 V	N750	R ₂₅ = 120 Ω	2W
C ₃₀ = 100 pF	500 V	N750	R ₂₆ = 10 Ω	½W
C ₃₁ = 47 pF	1000 V	N750	R ₂₇ = 10 Ω	½W
C ₃₂ = 100 nF	50 V		R ₂₈ = 120 Ω	2W
C ₃₃ = 100 nF	50 V		R ₂₉ = 1,0 Ω	½W
C ₃₄ = 100 nF	50 V		R ₃₀ = 12 KΩ	¼W
C ₃₅ = 100 nF	50 V		R ₃₁ = 3,3 KΩ	¼W
C ₃₆ = 100 nF	50 V		R ₃₂ = 100 Ω	2W
C ₃₇ = 3,3 pF	50 V	NP0	R ₃₃ = 100 Ω	2W
C ₃₈ = 2,2 pF	50 V	NP0	R ₃₄ = 2,2 KΩ	¼W
C ₃₉ = 33 pF	50 V	N750	R ₃₅ = 27 Ω	½W
C ₄₀ = 100 nF	50 V		R ₃₆ = 47 KΩ	¼W
C ₄₁ = 100 nF	50 V		R ₃₇ = Trimmer	220 KΩ
C ₄₂ = 470 nF	63 V ~		R ₃₈ = 330 Ω	2W
C ₄₃ = 100 nF	50 V		R ₃₉ = 1,2 KΩ	¼W
C ₄₄ = 4700 µF	50 V		R ₄₀ = 3,9 KΩ	¼W
C ₄₅ = 4700 µF	50 V		R ₄₁ = 470 Ω	¼W
C ₄₆ = 4700 µF	50 V		R ₄₂ = 2,2 KΩ	¼W
C ₄₇ = 47 µF	50 V		R ₄₃ = 470 Ω	¼W
C ₄₈ = 100 nF	50 V		R ₄₄ = 82 KΩ	¼W
C ₄₉ = 2,2 µF	16 V		R ₄₅ = 56 KΩ	¼W
C ₅₀ = 100 nF	50 V		R ₄₆ = 9 turns φ 5 mm resistive wire φ 0.8	
C ₅₁ = 470 pF	50 V		D ₁ = 1N4148	
C ₅₂ = 150 pF	50 V		D ₂ = 1N4148	
C ₅₃ = 2,2 µF	16 V		D ₃ = 1N4002	
C ₅₄ = 100 nF	50 V		D ₄ = 1N4148	
R ₁ = 2,2 KΩ	¼W		D ₅ = 1N4148	
R ₂ = 4,7 KΩ	¼W		D ₆ = 1N4002	
R ₃ = 4,7 KΩ	¼W		D ₇ = 1N4002	
R ₄ = 680 Ω	¼W		D ₈ = Zener 12 V 1,3 W	
R ₅ = 2,2 KΩ	¼W		D ₉ = BB112	
R ₆ = 1,2 KΩ	½W		D ₁₀ = BB112	
R ₇ = 330 Ω	2W		D ₁₁ = 1N4148	
R ₈ = Potentiometer	4,7 KΩ		D ₁₂ = 1N4148	
R ₉ = 47 KΩ	¼W		D ₁₃ = 1N4148	
R ₁₀ = 47 KΩ	¼W		D ₁₄ = 1N4148	
R ₁₁ = 18 Ω	½W		D ₁₅ = 1N4002	
R ₁₂ = 470 Ω	¼W		D ₁₆ = 1N4002	

D₁₇ = 1N5400
D₁₈ = 1N4002
D₁₉ = 1N4148
D₂₀ = 1N4148
D₂₁ = 1N4148
P = Bridge 60 V 25 A
Tr₁ = BC 547
Tr₂ = BC 547
Tr₃ = BC 337
Tr₄ = BF 245
Tr₅ = BF 245
Tr₆ = SD 1407
Tr₇ = SD 1407
Tr₈ = BC 547
Tr₉ = BD 241
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