



RM

Costruzioni Elettroniche

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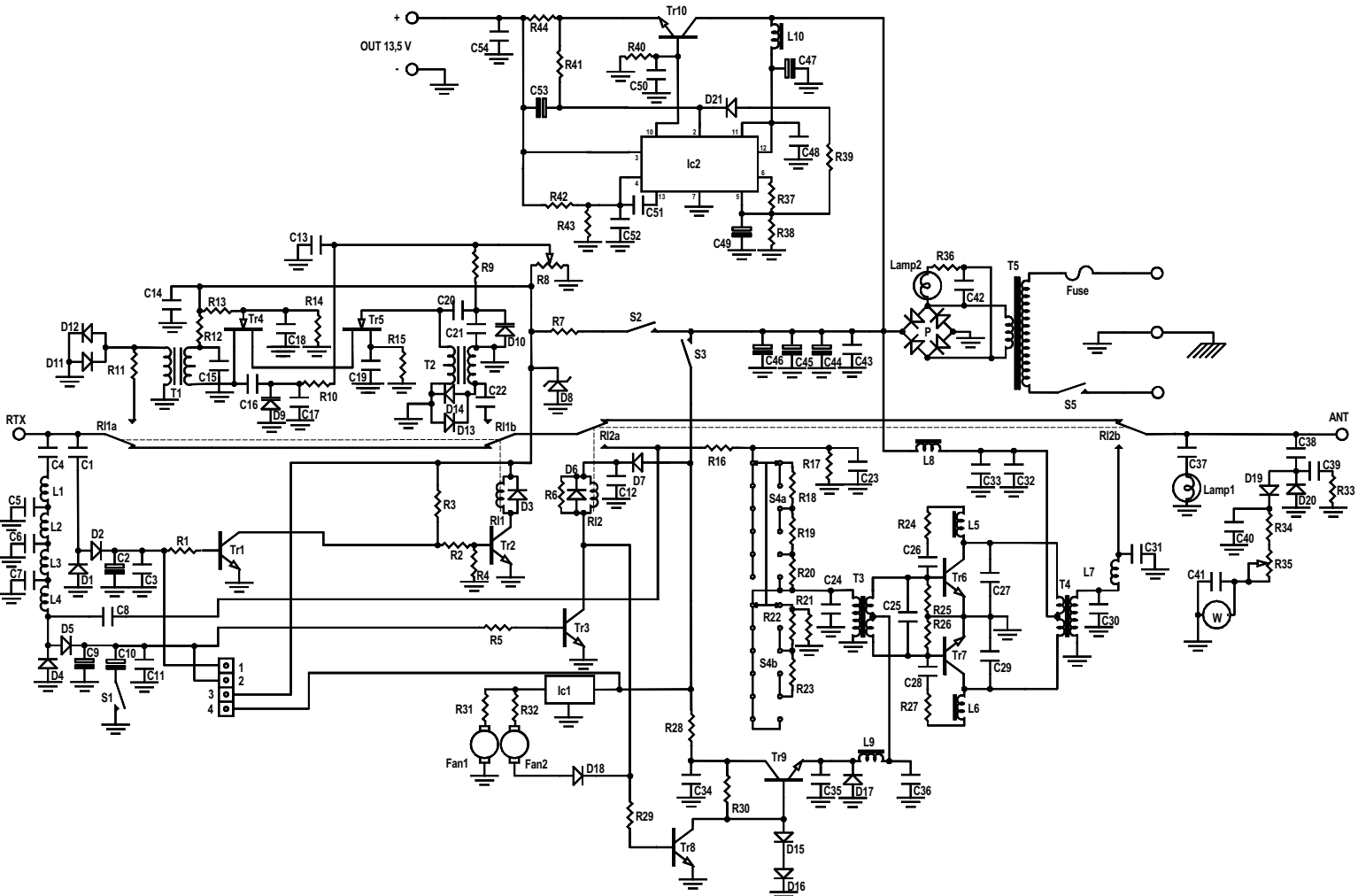
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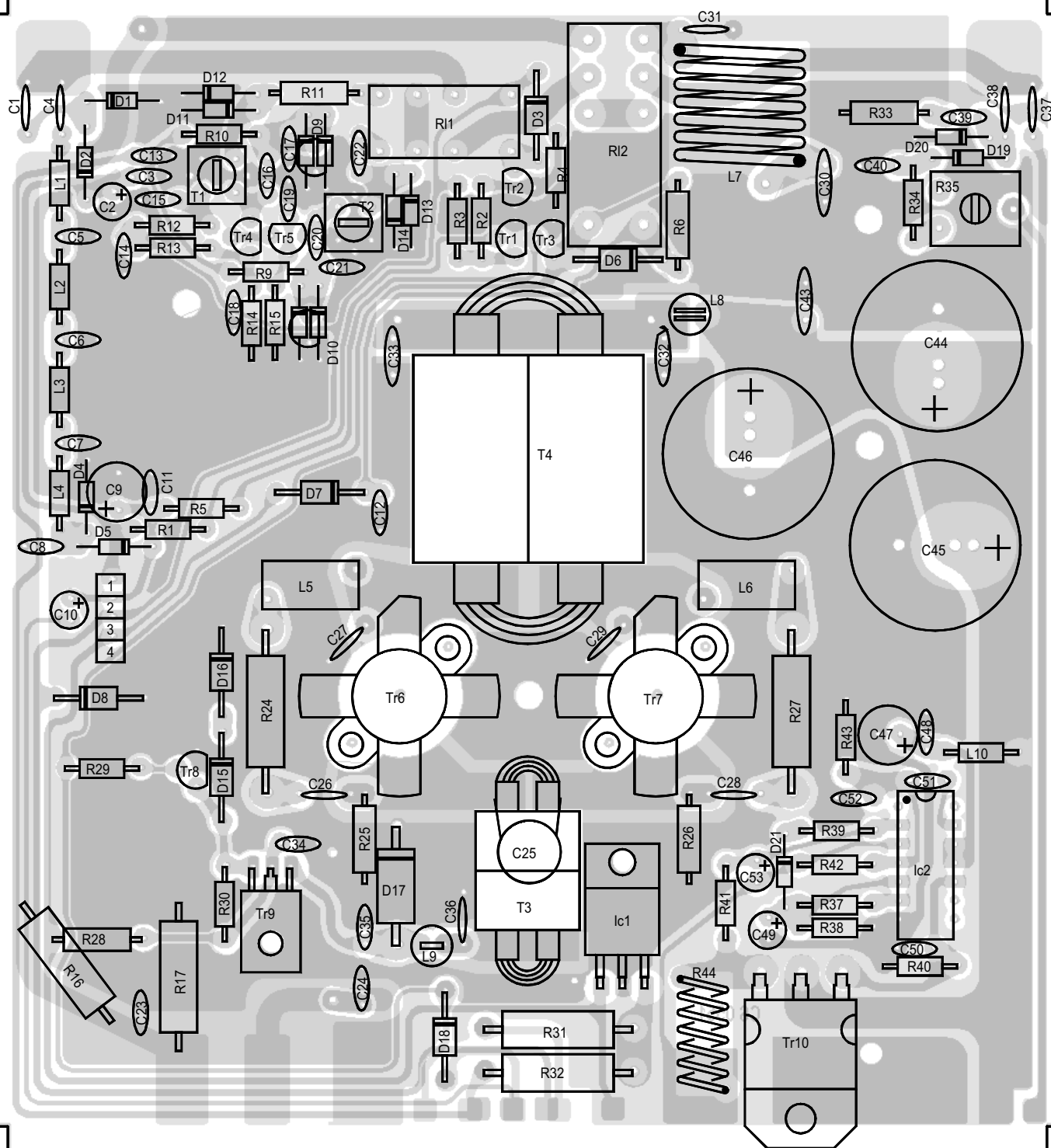
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KLV 550 linear amplifier

Schematic diagram

Version 3.01





List of components

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

R ₄₃ = 56 K Ω $\frac{1}{4}$ W	Lamp ₁ = 24 V
R ₄₄ = 9 turns ϕ 5 mm resistive wire ϕ 0.8	Lamp ₂ = Meter lamp
D ₁ = 1N4148	S ₁ = Switch 3A (AM - SSB)
D ₂ = 1N4148	S ₂ = Switch 3A (Pre ON)
D ₃ = 1N4002	S ₃ = Switch 3A (St. By)
D ₄ = 1N4148	S ₄ = Switch 6 positions
D ₅ = 1N4148	S ₅ = Switch 3A (ON - OFF)
D ₆ = 1N4002	T ₁ = T ₂ = Transformers 30 MHz
D ₇ = 1N4002	T ₃ = Input transformer
D ₈ = Zener 12 V 1,3 W	T ₄ = Output transformer
D ₉ = BB 112	T ₅ = Transformer IN 110 OUT 24 V
D ₁₀ = BB 112	Fan ₁ = Fan ₂ = Fans 12 V
D ₁₁ = 1N4148	
D ₁₂ = 1N4148	
D ₁₃ = 1N4148	
D ₁₄ = 1N4148	
D ₁₅ = 1N4002	
D ₁₆ = 1N4002	
D ₁₇ = 1N5400	
D ₁₈ = 1N4002	
D ₁₉ = 1N4148	
D ₂₀ = 1N4148	
D ₂₁ = 1N4148	
P = Bridge 60 V 25 A	
Tr ₁ = BC 547	
Tr ₂ = BC 547	
Tr ₃ = BC 337	
Tr ₄ = BF 245	
Tr ₅ = BF 245	
Tr ₆ = MRF422	
Tr ₇ = MRF422	
Tr ₈ = BC 547	
Tr ₉ = BD 179	
Tr ₁₀ = TIP 142	
Ic ₁ = LM 7824	
Ic ₂ = LM 723	
L ₁ = 2,2 μ H	
L ₂ = 2,2 μ H	
L ₃ = 2,2 μ H	
L ₄ = 2,2 μ H	
L ₅ = VK 200 normal	
L ₆ = VK 200 normal	
L ₇ = 6 turns ϕ 15 mm wire ϕ 1,5 mm	
L ₈ = VK 200 2 wires	
L ₉ = VK 200 1 wire	
L ₁₀ = 10 μ H	
Rl ₁ = Relè 12 V 3022	
Rl ₂ = Relè 24 V 4052	
Fuse = 8 A	