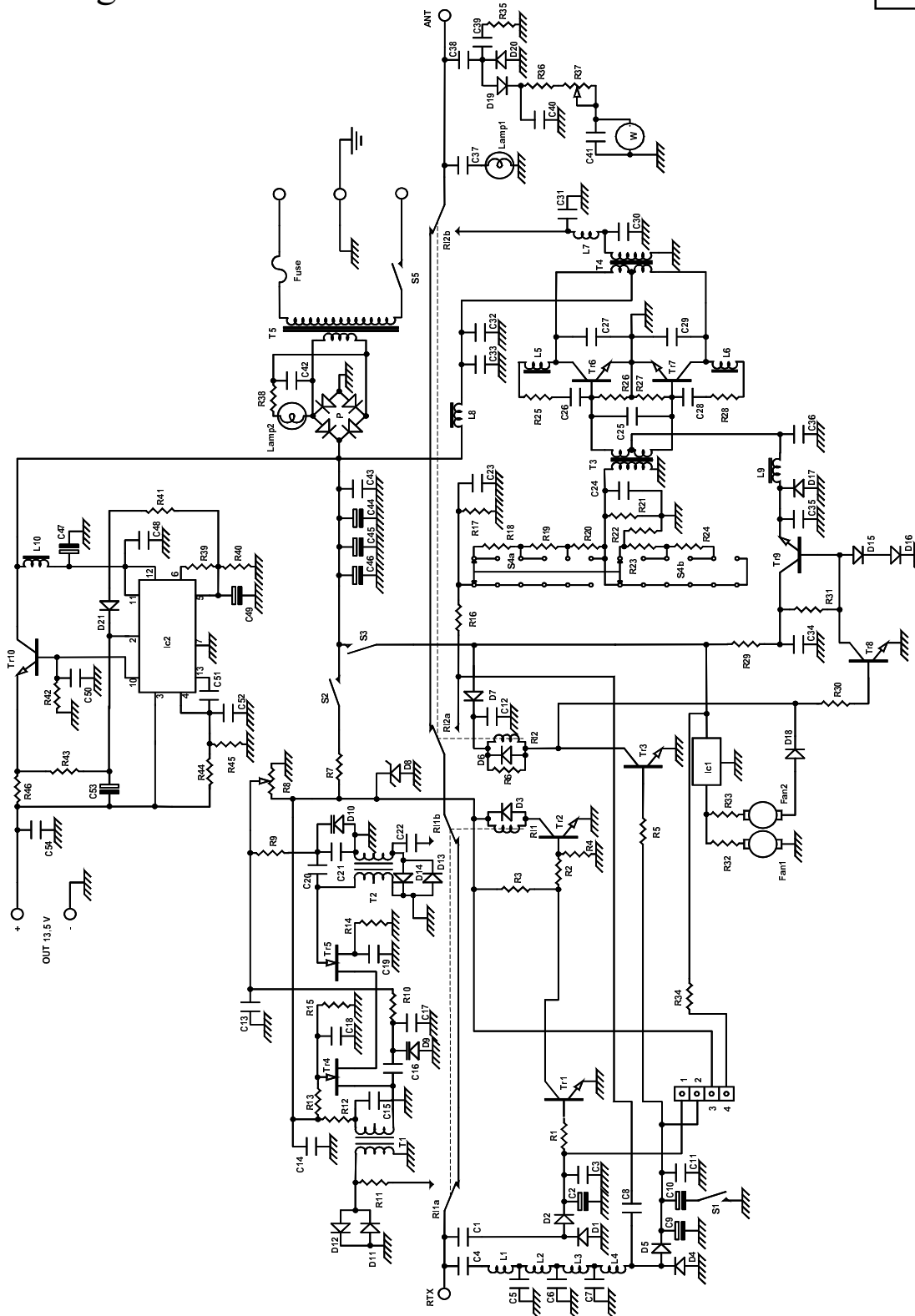
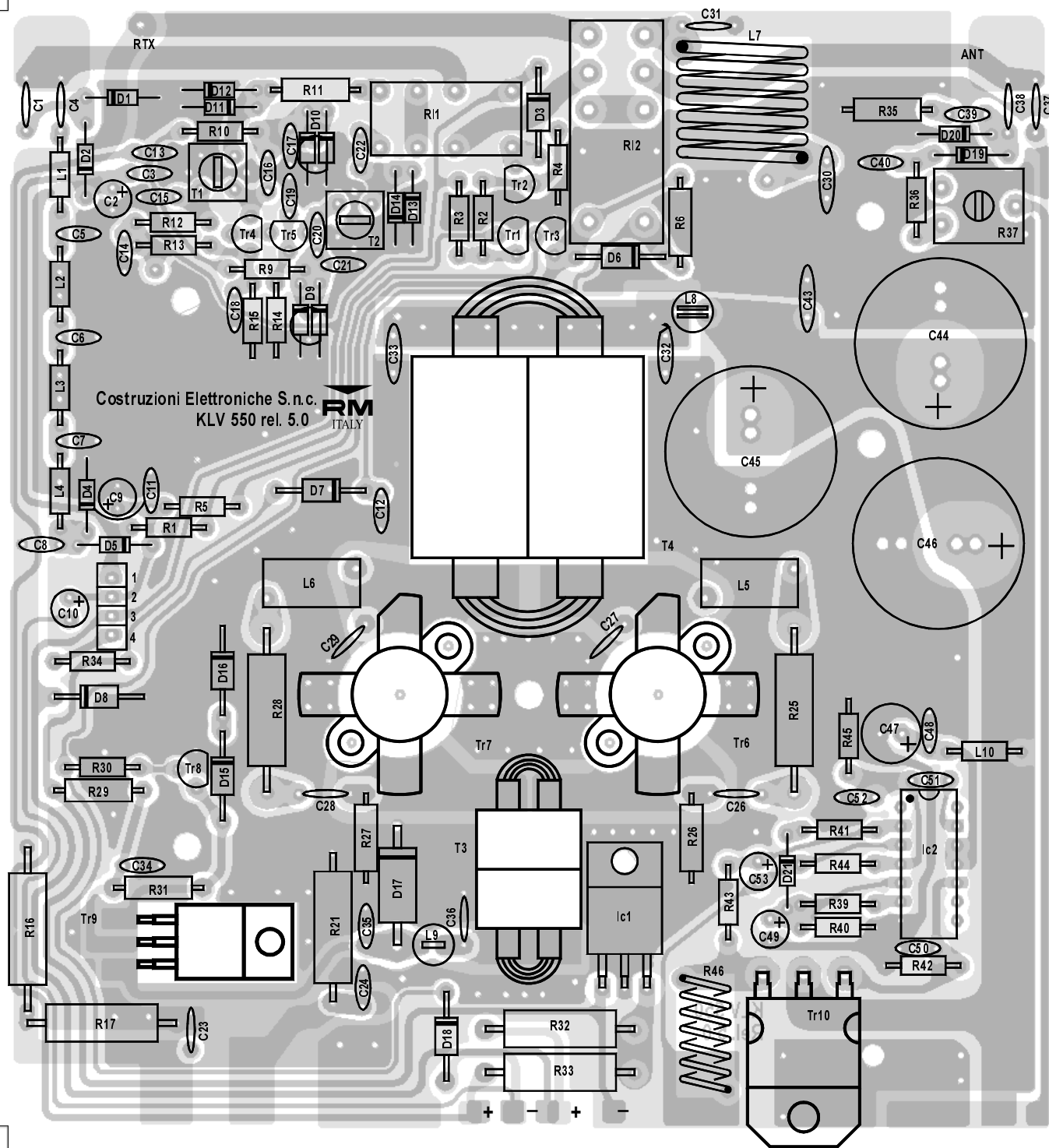


KLV 550 linear amplifier

Schematic diagram

Version 5.00





Costruzioni Elettroniche S.n.c.
 KLK 550 rel. 5.0
 RM ITALY

List of components

| | | | |
|-----|----------|------|-----|
| C 1 | = 3,3 pF | 50 V | NP0 |
| C 2 | = 10 µF | 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 µF | 16 V | |
| C 10 | = 33 µF | 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