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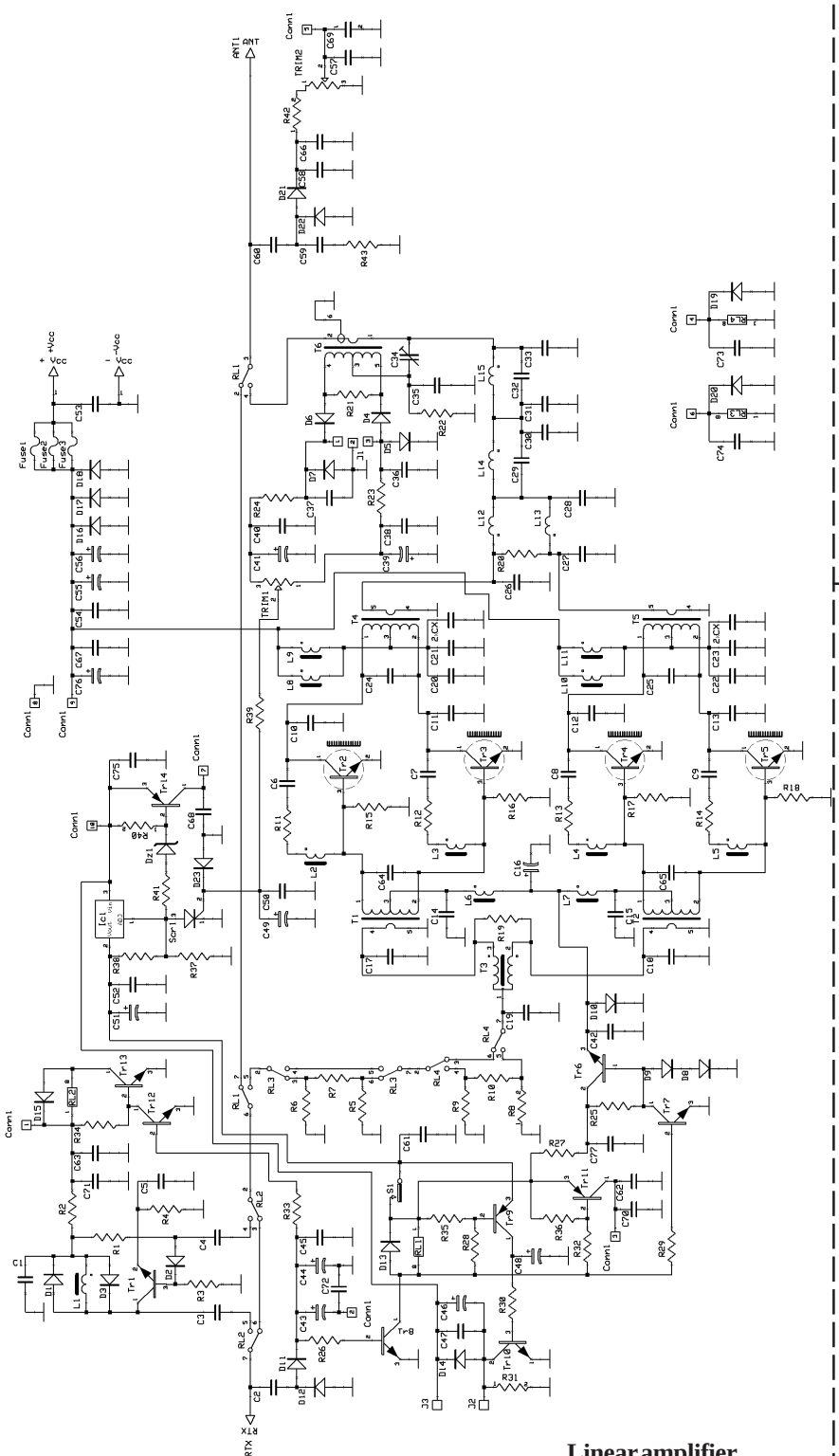
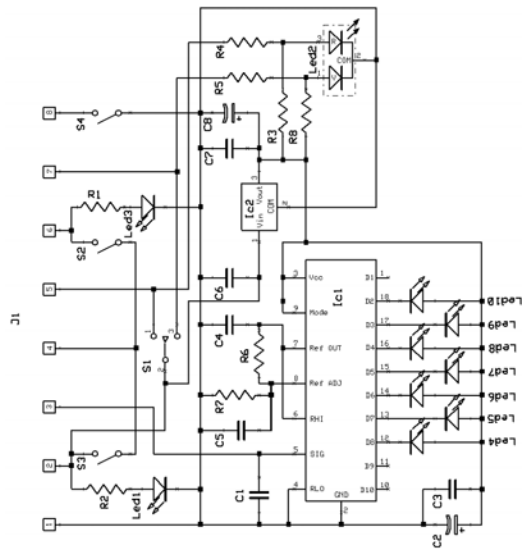
Mod. KL 800 linear amplifier

Schematic diagram

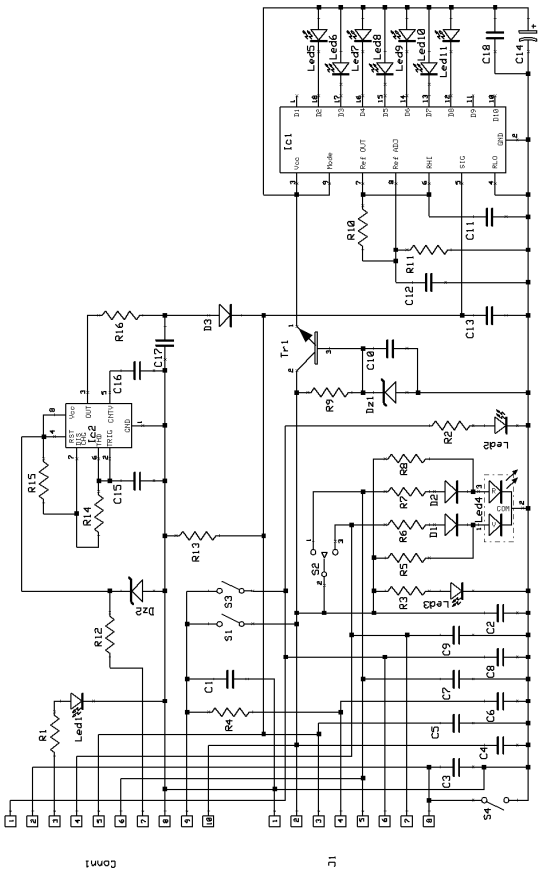
Version 1.01



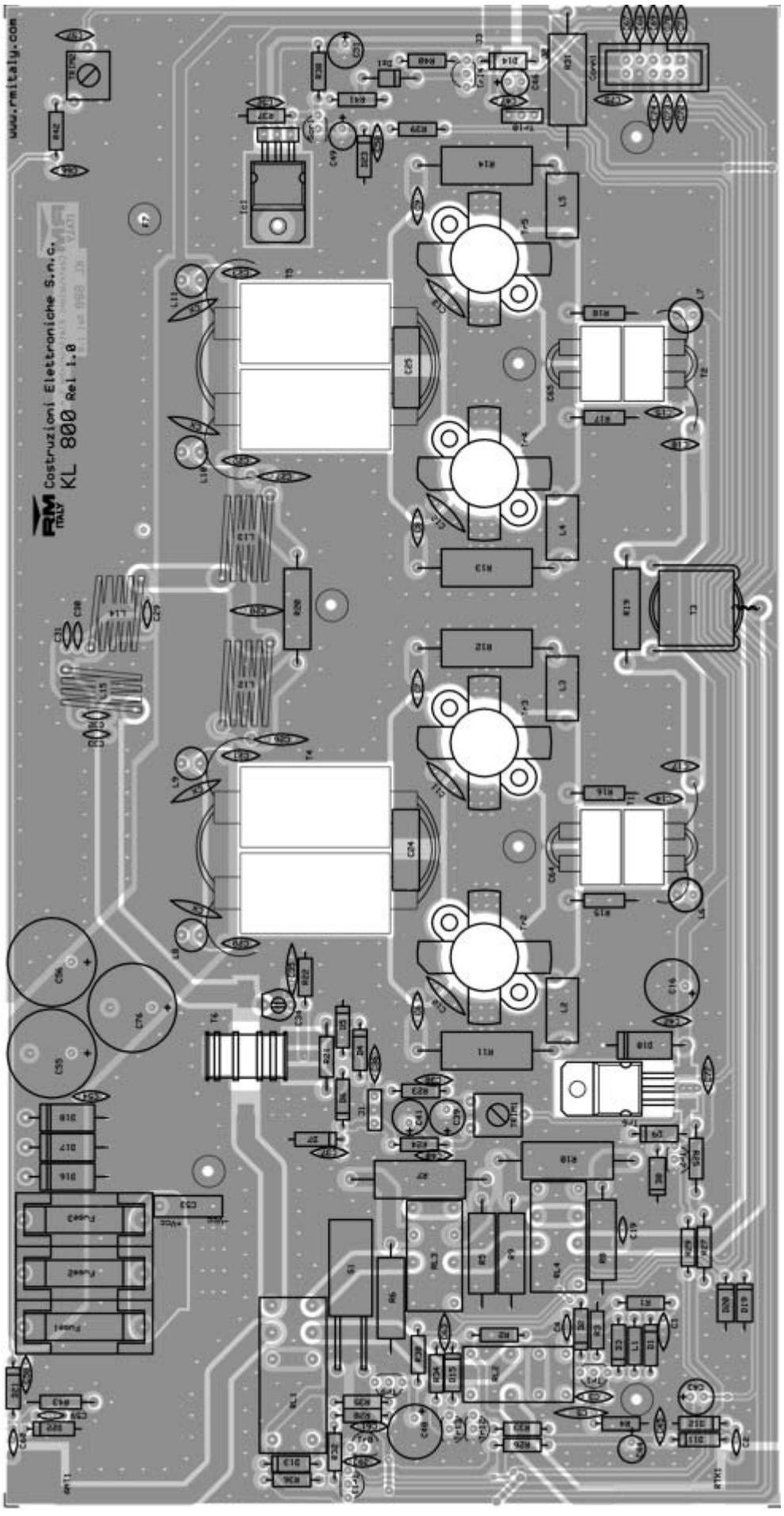
Linear amplifier



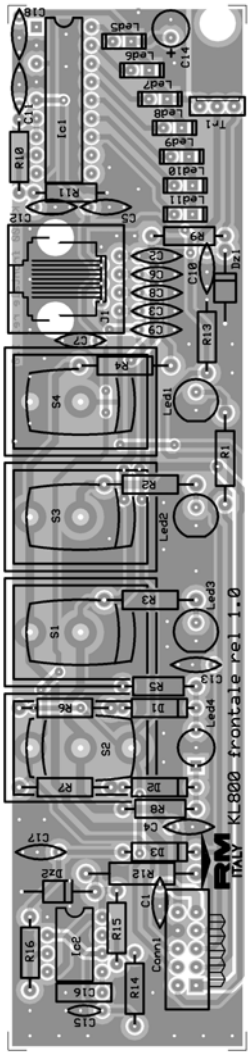
Remote control



Commandboard



CommandBoard



List of components

C 1	= 10 nF	50 V	
C 2	= 8,2 pF	50 V	NP0
C 3	= 150 pF	50 V	NP0
C 4	= 56 pF	50 V	NP0
C 5	= 470 pF	50 V	N750
da C 6 a C 9	= 47 nF	50 V	
da C 10 a C 13	= 220 pF	500 V	N750
C 14	= 100 nF	50 V	
C 15	= 100 nF	50 V	
C 16	= 470 µF	25 V	
C 17	= 150 pF	50 V	NP0
C 18	= 150 pF	50 V	NP0
C 19	= 180 pF	50 V	NP0
da C 20 a C 23	= 100 nF	50 V	
C 24	= 510 pF	500 V	Mica
C 25	= 510 pF	500 V	Mica
C 26	= 120 pF	500 V	NP0
C 27	= 120 pF	500 V	NP0
C 28	= 220 pF	500 V	Mica
C 29	= 12 pF	500 V	NP0
C 30	= 82 pF	500 V	NP0

C 31 = 82 pF 500 V NP0
C 32 = 39 pF 500 V NP0
C 33 = 39 pF 500 V NP0
C 34 = Trimmer 3 - 10 pF (white)
C 35 = 470 pF 50 V N750
da C 36 a C 38 = 100 nF 50 V
C 39 = 33 µF 25 V
C 40 = 100 nF 50 V
C 41 = 33 µF 25 V
C 42 = 100 nF 50 V
C 43 = 33 µF 25 V
C 44 = 4,7 µF 25 V
C 45 = 100 nF 50 V
C 46 = 10 µF 25 V
C 47 = 100 nF 50 V
C 48 = 1000 µF 25 V
C 49 = 10 µF 25 V
C 50 = 100 nF 50 V
C 51 = 100 µF 35 V
C 52 = 100 nF 50 V
C 53 = 470 nF 100 V Polyester
C 54 = 100 nF 50 V
C 55 = 2200 µF 35 V
C 56 = 2200 µF 35 V
C 57 = 100 nF 50 V
C 58 = 100 nF 50 V
C 59 = 33 pF 50 V NP0
C 60 = 2,2 pF 50 V NP0
da C 61 a C 63 = 100 nF 50 V
C 64 = 2 x 470 pF 50V N750
C 65 = 2 x 470 pF 50V N750
da C 66 a C 75 = 100 nF 50 V
C 76 = 2200 µF 35 V
C 77 = 100 nF 50 V
C x = 4 x 22 nF 500 V
R 1 = 12 KΩ ¼W
R 2 = 1,8 KΩ ¼W
R 3 = 2,2 KΩ ¼W
R 4 = 100 Ω ¼W
R 5 = 270 Ω 2W
R 6 = 270 Ω 2W
R 7 = 22 Ω 5W
R 8 = 220 Ω 2W
R 9 = 220 Ω 2W
R 10 = 22 Ω 5W
da R 11 a R 14 = 68 Ω 5W
da R 15 a R 18 = 10 Ω ½W
R 19 = 100 Ω 2W
R 20 = 100 Ω 2W
R 21 = 47 Ω ½W
R 22 = 1,0 KΩ ¼W
R 23 = 10 KΩ ¼W
R 24 = 1,0 KΩ ¼W
R 25 = 1,5 KΩ ½W
R 26 = 4,7 KΩ ¼W
R 27 = 1,0 Ω ½W
R 28 = 47 KΩ ¼W
R 29 = 47 KΩ ¼W
R 30 = 4,7 KΩ ¼W
R 31 = 120 Ω 2W
R 32 = 47 KΩ ¼W
R 33 = 4,7 KΩ ¼W
R 34 = 22 KΩ ¼W
R 35 = 10 KΩ ¼W
R 36 = 47 KΩ ¼W
R 37 = 15 KΩ ¼W
R 38 = 1,0 KΩ ¼W
R 39 = 1,0 KΩ ¼W
R 40 = 2,2 KΩ ¼W
R 41 = 10 KΩ ¼W
R 42 = 10 KΩ ¼W
R 43 = 27 Ω ½W
TRIM 1 = PT10LV 10 KΩ
TRIM 2 = PT10LV 220 KΩ
da D 1 a D 7 = 1N4148
D 8 = 1N4007
D 9 = 1N4007
D 10 = 1N5400
D 11 = 1N4148
D 12 = 1N4148
da D 13 a D 15 = 1N4007
da D 16 a D 18 = 1N5400
D 19 = 1N4007
D 20 = 1N4007
da D 21 a D 23 = 1N4148
Dz 1 = 20 V 1,3W
Tr 1 = BF 199
da Tr 2 a Tr 5 = SD 1407R
Tr 6 = BD 241 BFP
da Tr 7 a Tr 8 = BC 547B
Tr 9 = BC 557B
Tr 10 = BD 179
Tr 11 = BC 557B
Tr 12 = BC 547B
Tr 13 = BC 547B
Tr 14 = BC 327-25
Scr 1 = P0102
Ic 1 = LM 317T
L 1 = 10 µH

da L 2 a L 5 = VK 200
L 6 = VK 200 1 wire
L 7 = VK 200 1 wire
da L 8 a L11 = VK 200 2 wires
L 12 = ANRA856/5
L 13 = ANRA856/5
L 14 = ANRA856/1
L 15 = ANRA856
Rl 1 = Relè 24 V 4152.9.024
Rl 2 = Relè 24 V 3022.9.024
Rl 3 = Relè 24 V 3022.9.024
Rl 4 = Relè 24 V 3022.9.024
Fuse 1 = Fuse 2 = Fuse 3 =12A 5x20 Fast
T 1 = T 2 = Input transformer
T 3 = Input decoupler
T 4 = T5 = Output transformer
T 6 = ANRA 700/12
S1 = 80 °C Thermostat
Conn 1 = To Command Board
J 1 = Service connector
J 2 = J 3 = to Fan

Commnd Board

C 1	= 10 nF	50 V	
C 2	= 100 nF	50 V	
C 3	= 100 nF	50 V	
C 4	= 10 nF	50 V	
C 5	= 10 nF	50 V	
C 6	= 100 nF	50 V	
C 7	= 100 nF	50 V	
C 8	= 100 nF	50 V	
C 9	= 100 nF	50 V	
C 10	= 10 nF	50 V	
C 11	= 10 nF	50 V	
C 12	= 10 nF	50 V	
C 13	= 10 nF	50 V	
C 14	= 22 µF	25 V	
C 15	= 1.0 µF	50 V	Multilayer
C 16	= 10 nF	63 V	Polyester
C 17	= 10 nF	50 V	
C 18	= 10 nF	50 V	
R 1	= 2,2 KΩ	½W	
R 2	= 2,2 KΩ	½W	
R 3	= 2,2 KΩ	½W	
R 4	= 1,0 Ω	½W	
R 5	= 12 KΩ	¼W	
R 6	= 2,2 KΩ	½W	
R 7	= 2,2 KΩ	½W	
R 8	= 15 KΩ	¼W	
R 9	= 1,0 KΩ	¼W	
R 10	= 1,0 KΩ	¼W	
R 11	= 8,2 KΩ	¼W	
R 12	= 470 Ω	1W	
R 13	= 22 KΩ	¼W	
R 14	= 470 KΩ	¼W	
R 15	= 1,0 MΩ	¼W	
R 16	= 4,7 KΩ	¼W	

D 1 = 1N4148
D 2 = 1N4148
D 3 = 1N4148
Led 1 = TX (red)
Led 2 = Pre ON (yellow)
Led 3 = Lin ON (green)
Led 4 = Input Power (bi-color)
da Led 5 a Led 11 = Watt (green)
Dz 1 = 15 V 1,3W
Dz 2 = 15 V 1,3W
Tr 1 = BD 179
Ic 1 = LM 3915
Ic 2 = NE555
Conn 1 = To amplifier board
J 1 = To remote command
S 1 = Lin ON
S 2 = Input power
S 3 = Pre ON
S 4 = SSB

Remote Control

C 1	= 10 nF	50 V
C 2	= 22 µF	25 V
C 3	= 10 nF	50 V
C 4	= 10 nF	50 V
C 5	= 10 nF	50 V
C 6	= 100 nF	50 V
C 7	= 100 nF	50 V
C 8	= 10 µF	25 V
R 1	= 2,2 KΩ	½W
R 2	= 2,2 KΩ	½W
R 3	= 8,2 KΩ	¼W
R 4	= 2,2 KΩ	½W
R 5	= 2,2 KΩ	½W
R 6	= 1,0 KΩ	¼W
R 7	= 8,2 KΩ	¼W
R 8	= 10 KΩ	¼W

Ic 1 = LM 3915
Ic 2 = LM 7812
Led and S = same to command board