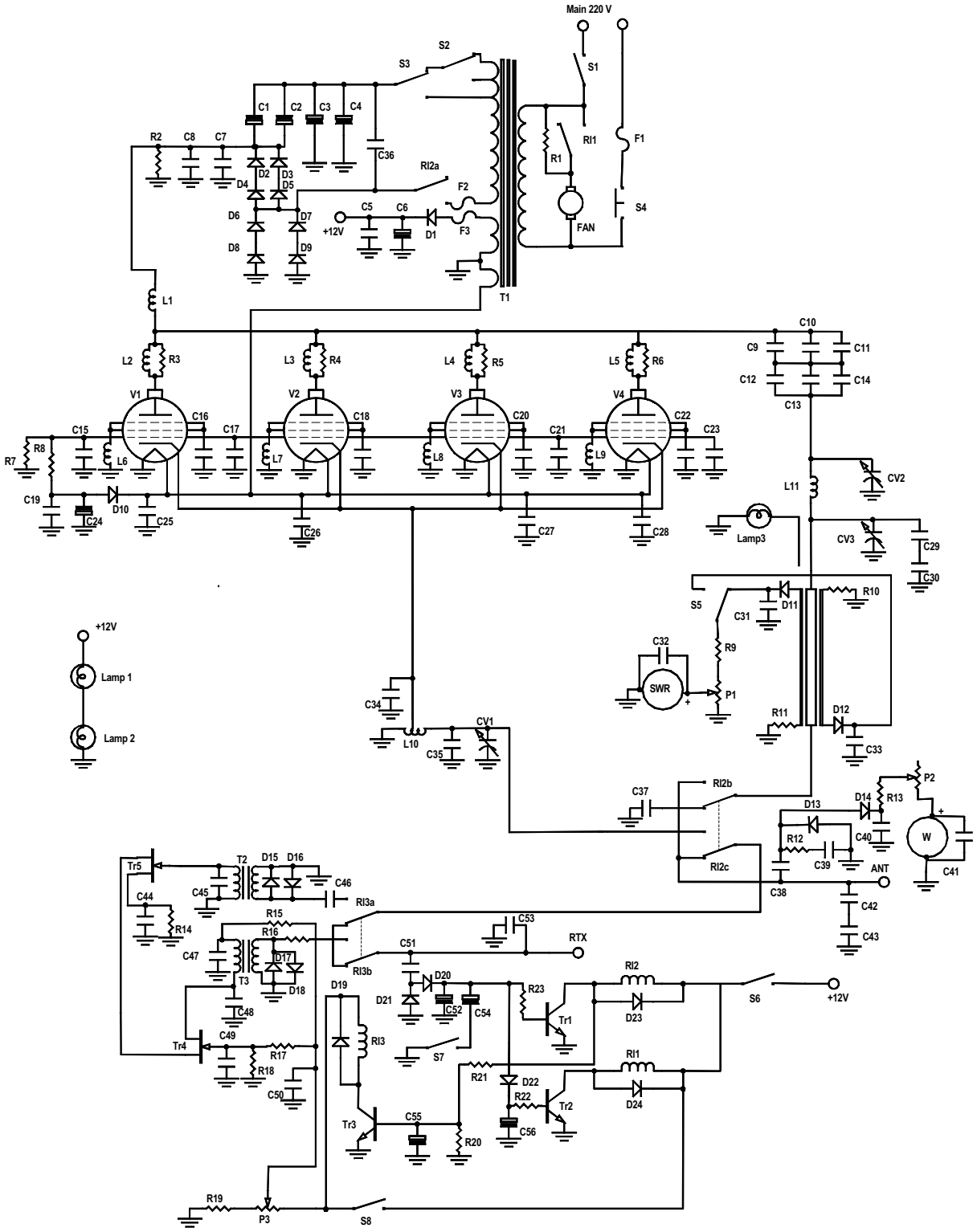
RM Costruzioni Elettroniche
di Marchioni Davide & Daniele s.n.c.

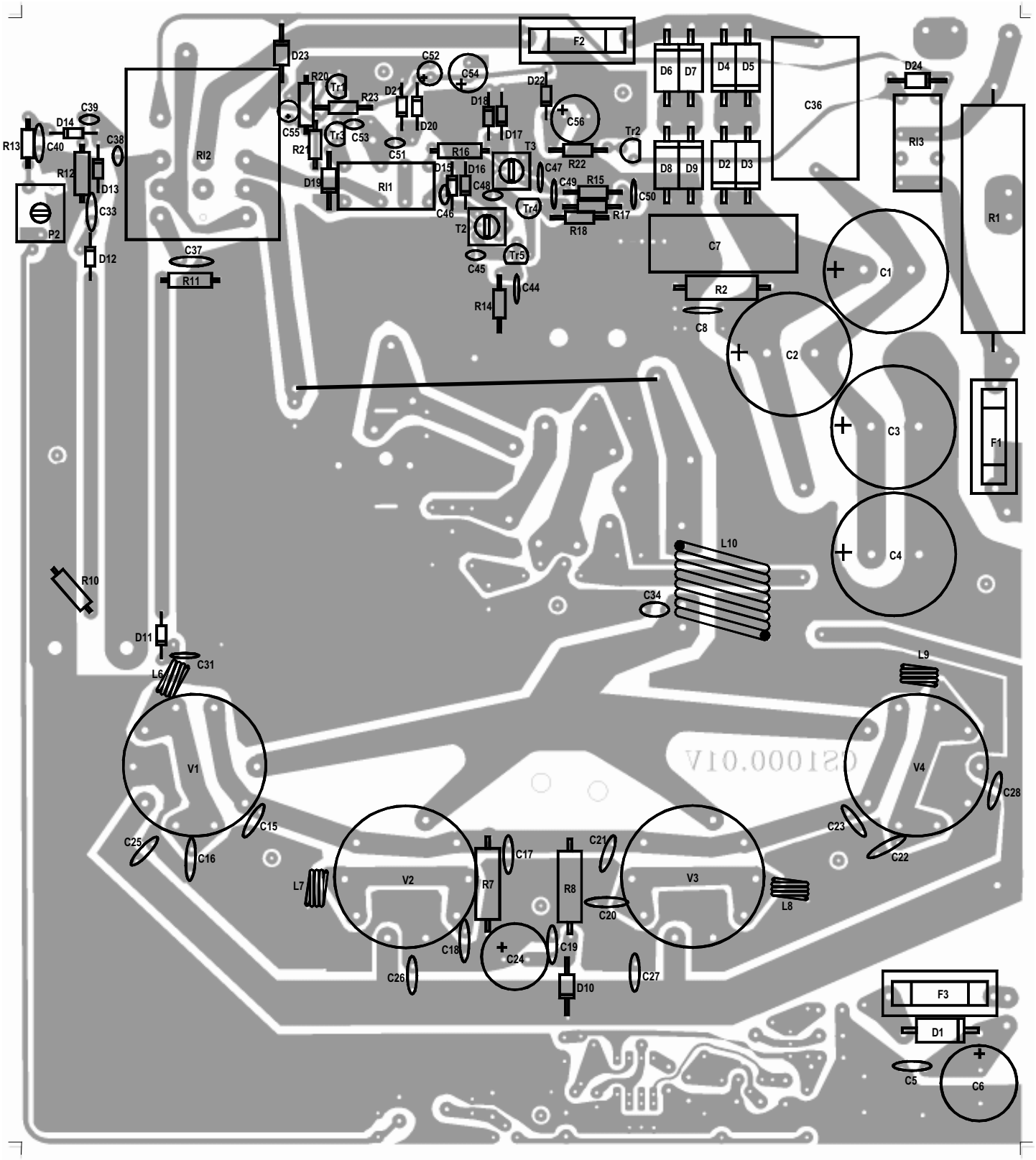
Via IV Novembre 215/5
Casella postale N° 33
40045 Ponte della Venturina (BO) ITALY
Tel +39 0534 60460
Fax +39 0534 60463
E-MAIL ufftec@rmitaly.com
http://www.rmitaly.com

Mod. 1000 P linear amplifier

Schematic diagram

Version 2.00




F2
D23
C52
C54
R20
Tr1
R23
D21
D22
D18
C55
Tr3
C53
D20
C56
Tr2
R21
C51
D17
T3
R16
C47
R22
D19
RI1
D15
D16
C48
C49
R15
C50
C46
Tr4
R17
T2
R18
Tr5
C45
C44
R14
C37
R11
C7
R2
C8
C1
C2
C3
C4
F1
R1
RI3
D24
C36
D6
D7
D4
D5
D8
D9
D2
D3
RI2
C39
D14
R13
C40
C38
R12
D13
C33
P2
D12
L10
C34
R10
D11
C31
L6
L9
V1
V4
C15
C25
C16
C28
C23
C22
L7
V2
R7
C17
R8
C21
V3
L8
C20
C18
C24
C19
C26
C27
D10
F3
D1
C5
C6

List of components

C_1	= 100 µF	450 V		
C_2	= 100 µF	450 V		
C_3	= 100 µF	450 V		
C_4	= 100 µF	450 V		
C_5	= 100 nF	50V		
C_6	= 2200 µF	16 V		
C_7	= 22 nF	1000V		
C_8	= 2,2 nF	1000 V		
C_9	= 2,2 nF	1500 V		
C_{10}	= 2,2 nF	1500 V		
C_{11}	= 2,2 nF	1500 V		
C_{12}	= 2,2 nF	1500 V		
C_{13}	= 2,2 nF	1500 V		
C_{14}	= 2,2 nF	1500 V		
C_{15}	= 100 nF	50V		
C_{16}	= 150 pF	500 V	N750	
C_{17}	= 100 nF	50V		
C_{18}	= 150 pF	500 V	N750	
C_{19}	= 100 nF	50V		
C_{20}	= 150 pF	500 V	N750	
C_{21}	= 100 nF	50V		
C_{22}	= 150 pF	500 V	N750	
C_{23}	= 100 nF	50V		
C_{24}	= 470 µF	50 V		
C_{25}	= 100 nF	50 V		
C_{26}	= 100 nF	50 V		
C_{27}	= 100 nF	50 V		
C_{28}	= 100 nF	50 V		
C_{29}	= 270 +220 pF	500 V	N750	
C_{30}	= 270 + 220 pF	500 V	N750	
C_{31}	= 100 nF	50 V		
C_{32}	= 100 nF	50 V		
C_{33}	= 100 nF	50 V		
C_{34}	= 82 pF	500 V	N750	
C_{35}	= 47 pF	500 V	N750	
C_{36}	= 470 nF	630 V~		
C_{37}	= 470 pF	50 V	N750	
C_{38}	= 2,2 pF	50 V	N750	
C_{39}	= 33 pF	50 V	N750	
C_{40}	= 100 nF	50 V		
C_{41}	= 100 nF	50 V		
C_{42}	= 68 pF	500 V	N750	
C_{43}	= 68 pF	500 V	N750	
C_{44}	= 10 nF	50V		
C_{45}	= 27 pF	50 V	N750	
C_{46}	= 10 nF	50V		
C_{47}	= 10 nF	50V		
C_{48}	= 33 pF	50 V	N750	
C_{49}	= 10 nF	50V		
C_{50}	= 10 nF	50V		
C_{51}	= 8,2 pF	50 V	N750	
C_{52}	= 10 µF	16 V		
C_{53}	= 27 pF	50 V	N750	
C_{54}	= 47 µF	16 V		
C_{55}	= 10 µF	16 V		
C_{56}	= 220 µF	16 V		
Cv_1	= Variable condensator 50 pF			
Cv_2	= Variable condensator 50 pF			
Cv_3	= Variable condensator 350 pF			
R_1	= 2,2 KΩ	17W		
R_2	= 470 KΩ	2W		
R_3	= 47 Ω	2W		
R_4	= 47 Ω	2W		
R_5	= 47 Ω	2W		
R_6	= 47 Ω	2W		
R_7	= 1,0 KΩ	2W		
R_8	= 100 Ω	2W		
R_9	= 47 KΩ	¼W		
R_{10}	= 100 Ω	½W		
R_{11}	= 100 Ω	½W		
R_{12}	= 27 Ω	½W		
R_{13}	= 47 KΩ	¼W		
R_{14}	= 180 Ω	¼W		
R_{15}	= 470 Ω	¼W		
R_{16}	= 18 Ω	1W		
R_{17}	= 56 KΩ	¼W		
R_{18}	= 22 KΩ	¼W		
R_{19}	= 4,7 KΩ	¼W		
R_{20}	= 680 Ω	¼W		
R_{21}	= 12 KΩ	¼W		
R_{22}	= 2,2 KΩ	¼W		
R_{23}	= 2,2 KΩ	¼W		
P_1	= Potenziometer 4,7 KΩ			
P_3	= Potenziometer 4,7 KΩ			
P_2	= Trimmer 220 KΩ			
D_1	= 1N5400			
$D_2 = D_3 = D_4 = D_5$	= BY 255			
$D_6 = D_7 = D_8 = D_9$	= BY 255			
$D_{10} = D_{19} = D_{23} = D_{24}$	= 1N4004			
$D_{11} = D_{12} = D_{13} = D_{14} = D_{15} = D_{16}$	= 1N4148			
$D_{17} = D_{18} = D_{20} = D_{21} = D_{22}$	= 1N4148			
$Tr_1 = Tr_2 = Tr_3$	= BC 547			
$Tr_4 = Tr_5$	= BF 245			
$V_1 = V_2 = V_3 = V_4$	= EL 509 - EL 519			
L_1	= RF impedance block			

$L_2 = L_3 = L_4 = L_5$ = 3 turns wound on resistor, wire ϕ 0.8 mm
$L_6 = L_7 = L_8 = L_9$ = 3 turns ϕ 6 mm wire ϕ 0.8 mm
L_{10} = 9 turns ϕ 15 mm wire ϕ 2,0 mm tap 4ª turn
L_{11} = 3 turns ϕ 34 mm wire ϕ 3,0 mm
$Rl_1 = Rl_3$ = Relè 12 V 3022
Rl_2 = Relè 12 V 6023
F_1 = 8 A
F_2 = 4 A
F_3 = 2 A
$Lamp_1 = Lamp_2$ = Meters lamp
$Lamp_3$ = 24 V
S_1 = Switch (ON - OFF)
S_2 = Switch (HI1 - HI2)
S_3 = Switch (LOW - HI)
S_4 = Protection Switch
S_5 = Switch (DIR - CAL)
S_6 = Switch 3A (St.By - ON)
S_7 = Switch 3A (AM - SSB)
S_8 = Switch 3A (Pre ON - OFF)
T_1 = Transformator IN 220 OUT 0-200-250-300V 0-12 V 0 - 6 V
$T_2 = T_3$ = Transformers 30 MHz
Fan = Fan 220 Vac