



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

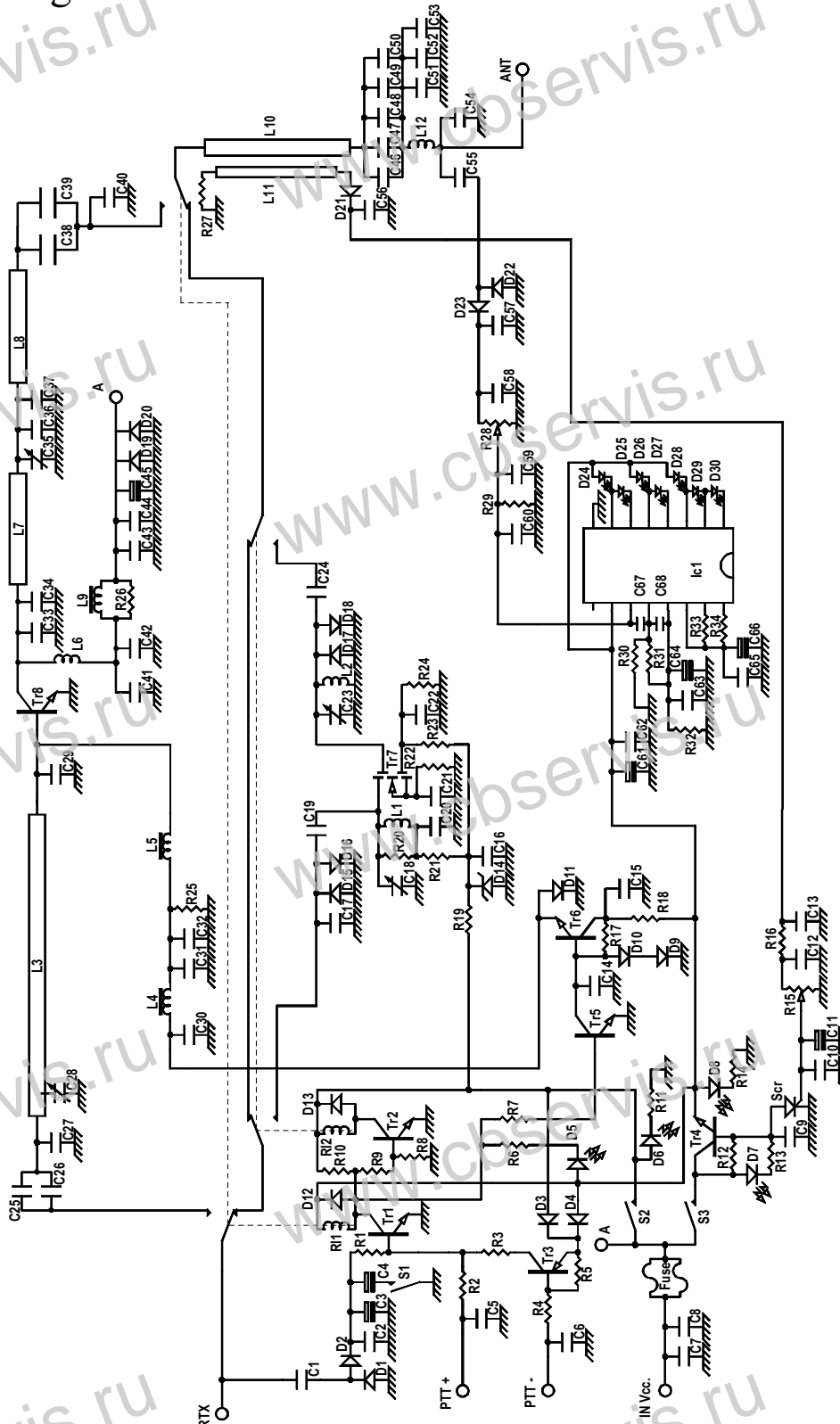
E-MAIL ufftec@rmitaly.com

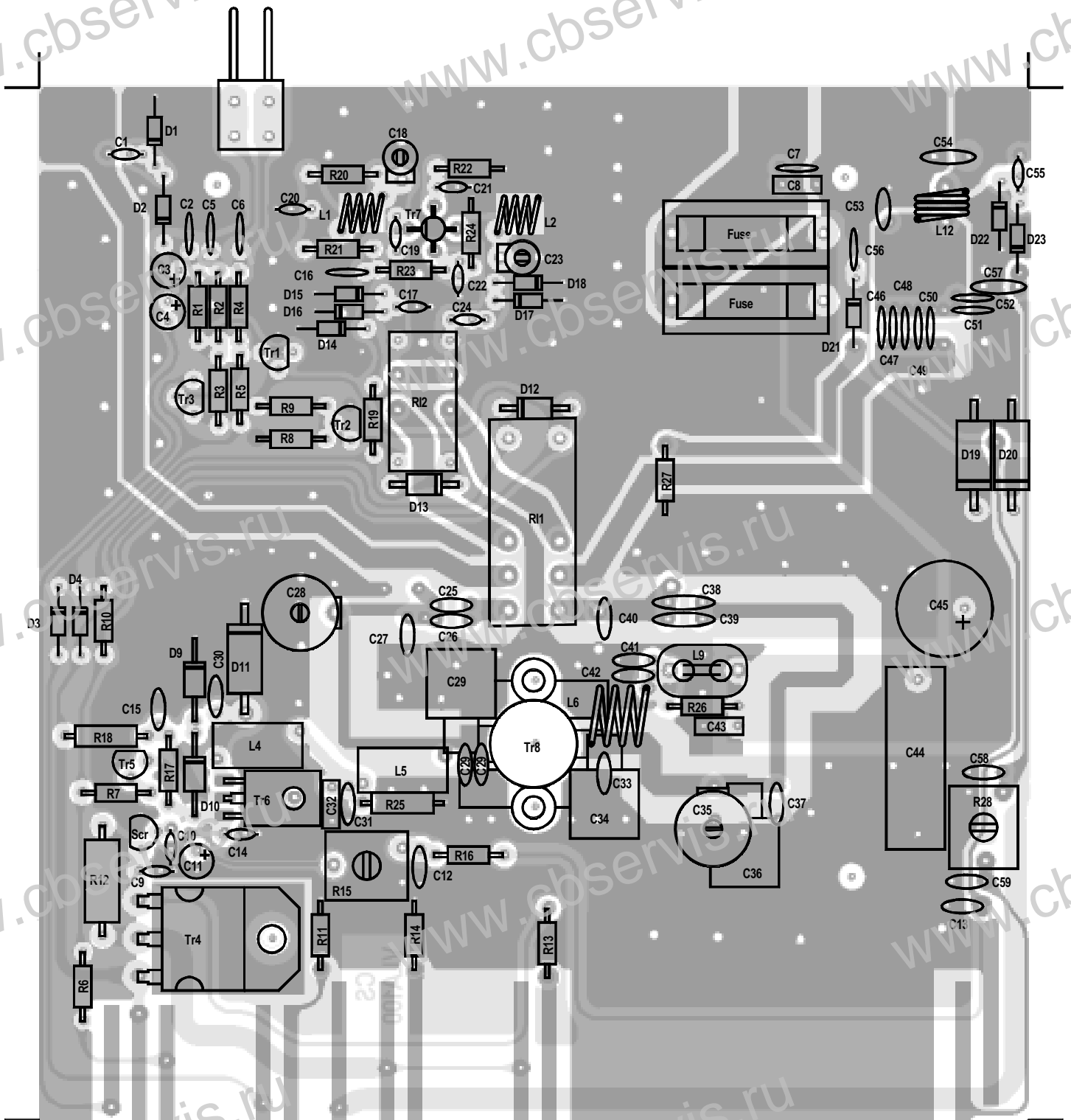
http://www.rmitaly.com

Mod. VLA 100 VHF linear amplifier

Schematic diagram

Version 1.01





List of components

C 1	=	2,2 pF	50 V NP0	C 8	=	220 nF	63 V Multilayer
C 2	=	1,0 nF	50 V	C 9	=	1,0 nF	50 V
C 3	=	4,7 μ F	16 V	C 10	=	1,0 nF	50 V
C 4	=	33 μ F	16 V	C 11	=	10 μ F	16 V
C 5	=	1,0 nF	50 V	C 12	=	1,0 nF	50 V
C 6	=	1,0 nF	50 V	C 13	=	1,0 nF	50 V
C 7	=	100 nF	50 V	C 14	=	1,0 nF	50 V

C 15 =	1,0 nF	50 V		C 63 =	10 nF	50 V
C 16 =	1,0 nF	50 V		C 64 =	4,7 μ F	16 V
C 17 =	4,7 pF	50 V NP0		C 65 =	10 nF	50 V
C 18 =	Trimmer 3-10 pF	NP0		C 66 =	10 μ F	16 V
C 19 =	4,7 pF	50 V NP0		R 1 =	2,2 K Ω	1/4 W
C 20 =	1,0 nF	50 V		R 2 =	2,2 K Ω	1/4 W
C 21 =	1,0 nF	50 V		R 3 =	2,2 K Ω	1/4 W
C 22 =	1,0 nF	50 V		R 4 =	12 K Ω	1/4 W
C 23 =	Trimmer 3-10 pF	NP0		R 5 =	2,2 K Ω	1/4 W
C 24 =	3,9 pF	50 V NP0		R 6 =	1,0 K Ω	1/4 W
C 25 =	100 pF	50 V NP0		R 7 =	12 K Ω	1/4 W
C 26 =	100 pF	50 V NP0		R 8 =	22 K Ω	1/4 W
C 27 =	22 pF	50 V NP0		R 9 =	12 K Ω	1/4 W
C 28 =	Trimmer 10-60 pF	NP0		R 10 =	4,7 K Ω	1/4 W
C 29 =	390 pF 500 V Mica +2x33 pF	50 V NP0		R 11 =	1,0 K Ω	1/4 W
C 30 =	1,0 nF	50 V		R 12 =	330 Ω	2 W
C 31 =	1,0 nF	50 V		R 13 =	1,0 K Ω	1/4 W
C 32 =	220 nF	63 V	Multilayer	R 14 =	1,0 K Ω	1/4 W
C 33 =	33 pF	500 V	NP0	R 15 =	Trimmer 4,7 K Ω	
C 34 =	390 pF	500 V	Mica	R 16 =	2,2 K Ω	1/4 W
C 35 =	Trimmer 10-60 pF	NP0		R 17 =	1,2 K Ω	1/4 W
C 36 =	100 pF	500 V	Mica	R 18 =	1,0 Ω	1/2 W
C 37 =	33 pF	500 V	NP0	R 19 =	470 Ω	1/4 W
C 38 =	2,2 nF	500 V		R 20 =	1,0 K Ω	1/4 W
C 39 =	2,2 nF	500 V		R 21 =	150 Ω	1/4 W
C 40 =	8,2 pF	500 V	NP0	R 22 =	220 Ω	1/4 W
C 41 =	2,2 nF	500 V		R 23 =	6,8 K Ω	1/4 W
C 42 =	1,0 nF	500 V		R 24 =	3,3 K Ω	1/4 W
C 43 =	1,0 nF	50 V		R 25 =	4,7 Ω	1/4 W
C 44 =	33 nF	1000 V	Polyester	R 26 =	10 Ω	1/2 W
C 45 =	470 μ F	25 V		R 27 =	100 Ω	1/4 W
C 46 =	180 pF	500 V	N750	R 28 =	Trimmer 220 K Ω	
C 47 =	180 pF	500 V	N750	R 29 =	180 Ω	1/4 W
C 48 =	180 pF	500 V	N750	R 30 =	10 K Ω	1/4 W
C 49 =	180 pF	500 V	N750	R 31 =	100 K Ω	1/4 W
C 50 =	180 pF	500 V	N750	R 32 =	22 K Ω	1/4 W
C 51 =	12 pF	500 V	NP0	R 33 =	22 K Ω	1/4 W
C 52 =	12 pF	500 V	NP0	R 34 =	10 K Ω	1/4 W
C 53 =	12 pF	500 V	NP0	D 1 =	1N 4148	
C 54 =	33 pF	500 V	NP0	D 2 =	1N 4148	
C 55 =	2,2 pF	50 V NP0		D 3 =	1N 4148	
C 56 =	1,0 nF	50 V		D 4 =	1N 4148	
C 57 =	1,0 nF	50 V		D 5 =	Red LED	
C 58 =	1,0 nF	50 V		D 6 =	Yellow LED	
C 59 =	1,0 nF	50 V		D 7 =	Red LED	
C 60 =	10 nF	50 V		D 8 =	Green LED	
C 61 =	10 μ F	16 V		D 9 =	1N 4004	
C 62 =	10 nF	50 V		D 10 =	1N 4004	

D ₁₁	=	1N 5400
D ₁₂	=	1N 4004
D ₁₃	=	1N 4004
D ₁₄	=	Zener 5,1 V ½W
D ₁₅	=	1N 4148
D ₁₆	=	1N 4148
D ₁₇	=	1N 4148
D ₁₈	=	1N 4148
D ₁₉	=	1N 5400
D ₂₀	=	1N 5400
D ₂₁	=	1N 4148
D ₂₂	=	1N 4148
D ₂₃	=	1N 4148
D ₂₄	=	Green LED
D ₂₅	=	Green LED
D ₂₆	=	Green LED
D ₂₇	=	Green LED
D ₂₈	=	Green LED
D ₂₉	=	Green LED
D ₃₀	=	Green LED
Tr ₁	=	BC 547
Tr ₂	=	BC 547
Tr ₃	=	BC 557
Tr ₄	=	TIP 142
Tr ₅	=	BC 547
Tr ₆	=	BD 175
Tr ₇	=	BF 966 S
Tr ₈	=	SD 1477
Scr	=	P 0102
Fuse	=	2 x 8 A
IC ₁	=	KA 2288
L ₁	=	4 turns wire ϕ 0,8 mm on ϕ 5 mm
L ₂	=	4 turns wire ϕ 0,8 mm on ϕ 5 mm
L ₃	=	Strip line
L ₄	=	VK 200
L ₅	=	VK 200
L ₆	=	3 turns wire ϕ 1,5 mm on ϕ 8 mm
L ₇	=	Strip line
L ₈	=	Strip line
L ₉	=	2 turns wire ϕ 1,3 mm on ½ Balun
L ₁₀	=	Strip line
L ₁₁	=	Strip line
L ₁₂	=	3 turns wire ϕ 1,2 mm on ϕ 6 mm
Rl ₁	=	4052 - 12
Rl ₂	=	3022 - 12
S ₁	=	Switch 3A (FM - SSB)
S ₂	=	Switch 3A (Pre ON - OFF)
S ₃	=	Switch 3A (Lin ON - OFF)