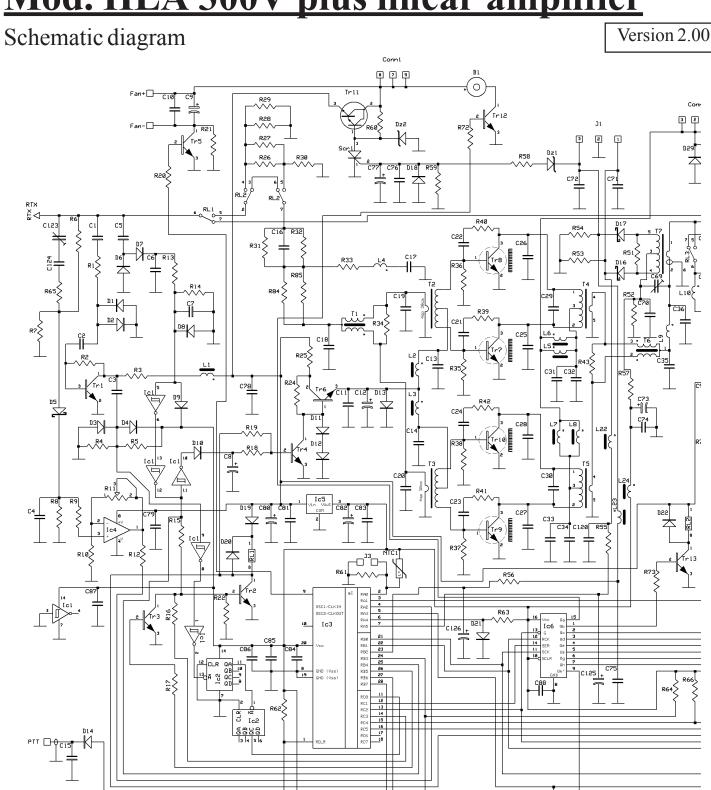


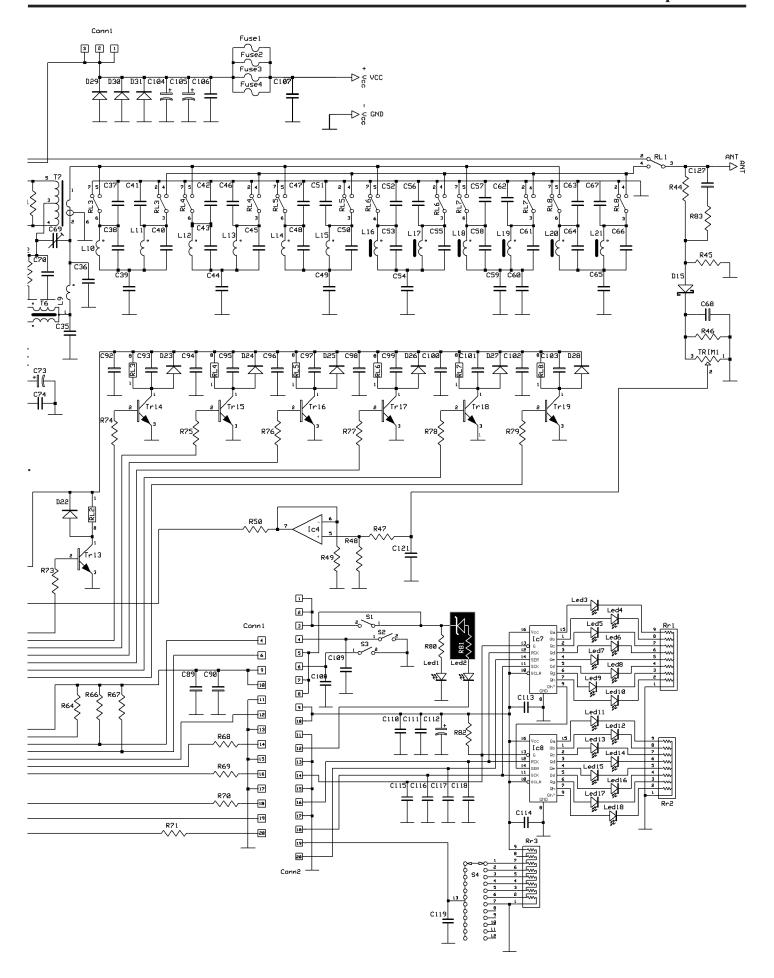
Via IV Novembre 215/5 Casella postale N° 33 40045 Ponte della Venturina (BO) ITALY

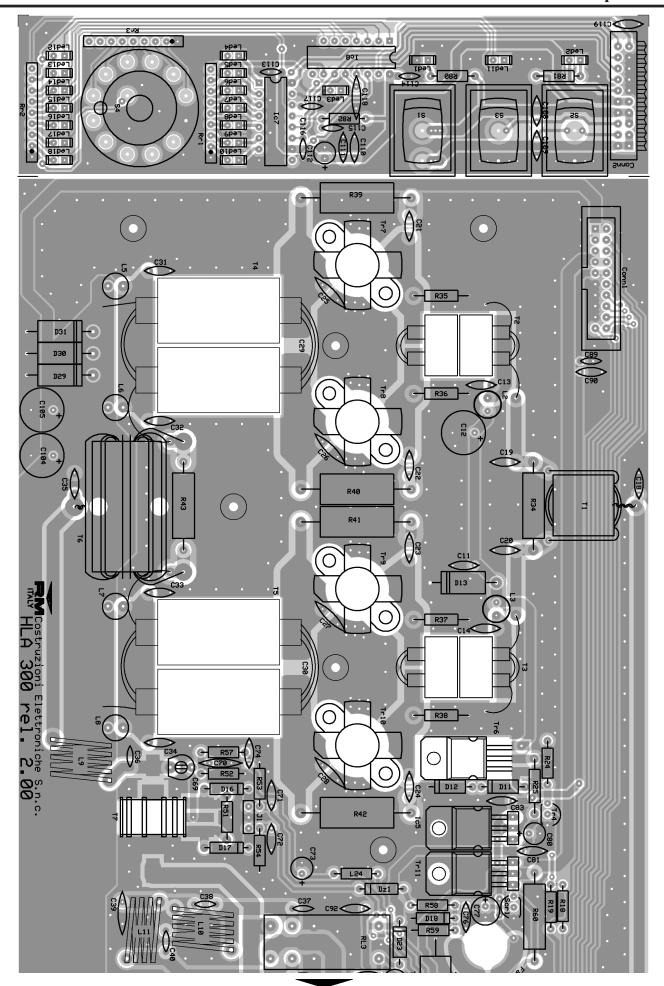
Tel +39 0534 60460 Fax +39 0534 60463

E-MAIL ufftec@rmitaly.com http://www.rmitaly.com

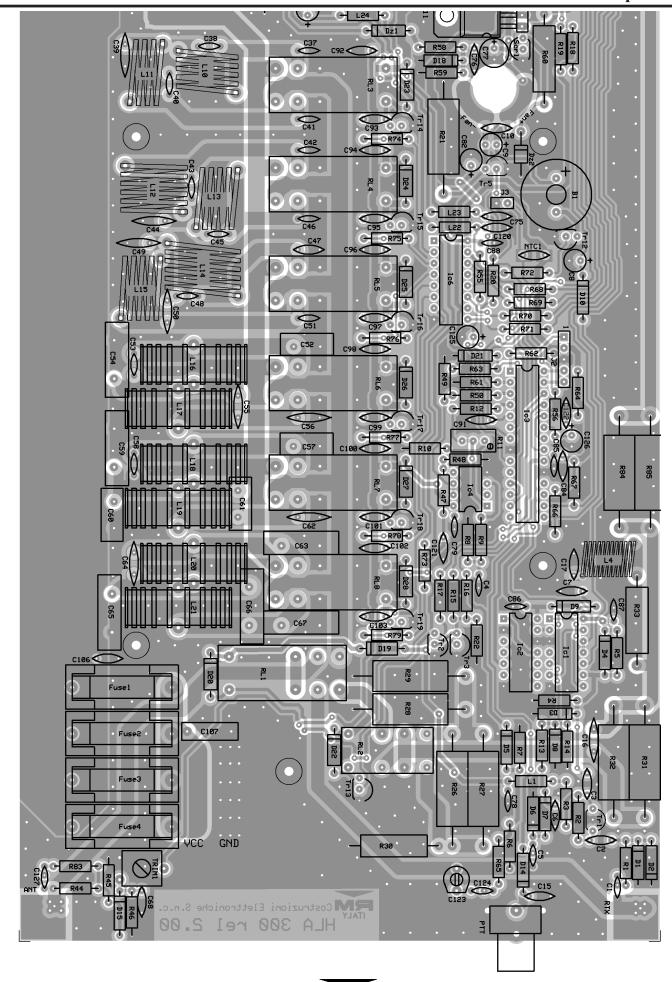
Mod. HLA 300V plus linear amplifier







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- A A						
List of compo	onents		C 60	= 390 pF	500 V	Silveredmica
$C_1 = 10 \text{ pF}$	50 V	NP0	C 61	= 330 pF	500 V	Silveredmica
$C_2 = 100 \text{nF}$	50 V			= 270 pF	500 V	N750
$C_3 = 10 \text{ nF}$	50 V			= 560 pF	500 V	Silveredmica
$C_4 = 1.0 \mu\text{F}$	50 V	Multilayer		= 270 pF	500 V	N750
				= 1600 pF	500 V	Silveredmica
$C_{5} = 4.7 \text{ pF}$	50 V	NP0				
$C_{6} = 100 \text{ nF}$	50 V			= 620 pF	500 V	Silveredmica
C 7 = 10 nF	50 V			= 560 pF	500 V	Silveredmica
$C_{8} = 2.2 \mu\text{F}$	25 V			= 10 nF	50 V	
$C_9 = 22 \mu\text{F}$	25 V			= HCU06C		
$C_{10} = 100 \text{ nF}$	50 V			= 470 pF	50 V	N750
$C_{11} = 100 nF$	50 V			= 100 nF	50 V	
$C_{12} = 470 \mu\text{F}$	25 V		C 72	= 100 nF	50 V	
$C_{13} = 100 nF$	50 V		C 73	$=22 \mu F$	25 V	
$C_{14} = 100 nF$	50 V		C 74	= 100 nF	50 V	
$C_{15} = 100 nF$	50 V		C 75	= 100 nF	50 V	
$C_{16} = 220 \text{ pF}$	500 V	N750		= 100 nF	50 V	
$C_{17} = 10 \text{ nF}$	50 V			$=47 \mu F$	25 V	
$C_{18} = \text{not prese}$				$=220 \mathrm{nF}$	50 V	Multilayer
$C_{19} = 100 \text{ pF}$	50 V	NP0		= 220 nF	50 V	Multilayer
$C_{20} = 100 \text{ pF}$	50 V	NP0		$=10 \mu\text{F}$	25 V	TVICILITATE
		NFU			50 V	
$C_{21} = 47 \text{nF}$	50 V			= 100 nF		
$C_{22} = 47 \text{ nF}$	50 V			$= 22 \mu\text{F}$	25 V	
$C_{23} = 47 \text{ nF}$	50 V			= 100 nF	50 V	
$C_{24} = 47 \text{nF}$	50 V			= 100 nF	50 V	3.6.1.9
$C_{25} = 180 \text{ pF}$	500 V	N750		= 220 nF	50 V	Multilayer
$C_{26} = 180 pF$	500 V	N750		= 220 nF	50 V	Multilayer
$C_{27} = 180 \text{ pF}$	500 V	N750	C 87	= 220 nF	50 V	Multilayer
$C_{28} = 180 pF$	500 V	N750	C 88	= 220 nF	50 V	Multilayer
$C_{29} = 560 + 39$			C 89	= 220 nF	50 V	Multilayer
$C_{30} = 560 + 39$				= 100 nF	50 V	J
$C_{31} = 100 \text{ nF}$	50 V			= 100 nF	50 V	
$C_{32} = 100 \text{ nF}$	50 V			= 100 nF	50 V	
$C_{33} = 100 \text{ nF}$	50 V			= 100 nF	50 V	
$C_{34} = 100 \text{ nF}$	50 V			= 100 nF	50 V	
$C_{35} = 100 \text{ pF}$	500 V	NP0		= 100 nF	50 V	
$C_{36} = 56 \text{ pF}$	500 V	NP0		= 100 nF	50 V	
$C_{36} = 30 \text{ pr}$ $C_{37} = 47 \text{ pF}$		NP0		= 100 nF	50 V	
	500 V			= 100 nF	50 V	
$C_{38} = 12 \text{ pF}$	500 V	NPO				
$C_{39} = 150 \text{ pF}$	500 V	NP0		= 100 nF	50 V	
$C_{40} = 39 \text{ pF}$	500 V	NP0		$_{0} = 100 \text{ nF}$	50 V	
$C_{41} = 39 \text{ pF}$	500 V	NP0		1 = 100 nF	50 V	
$C_{42} = 82 pF$	500 V	NP0		a = 100 nF	50 V	
$C_{43} = 18 \text{ pF}$	500 V	NP0		s = 100 nF	50 V	
$C_{44} = 220 \text{ pF}$	500 V	N750		$\mu = 470 \mu F$	25 V	
$C_{45} = 39 pF$	500 V	NP0	C 105	$s = 470 \mu\text{F}$	25 V	
$C_{46} = 68 \text{ pF}$	500 V	NP0	C 106	s = 100 nF	50 V	
$C_{47} = 100 \text{ pF}$	500 V	NP0	C 107	7 = 470 nF	100 V	Polyester
$C_{48} = 56 \text{ pF}$	500 V	NP0	C 108	s = 100 nF	50 V	•
$C_{49} = 220 \text{ pF}$	500 V	N750		p = 100 nF	50 V	
$C_{50} = 180 \text{ pF}$	500 V	N750		0 = 10 nF	50 V	
$C_{51} = 22 \text{ pF}$	500 V	NP0		i = 100 nF	50 V	
$C_{52} = 390 \text{ pF}$	500 V 500 V	Silveredmica		$a = 22 \mu\text{F}$	25 V	
$C_{52} = 56 \text{ pF}$		NP0		$a = 22 \mu \text{r}$ a = 220 nF	50 V	Multilayer
	500 V			a = 220 mF a = 220 nF	50 V	
$C_{54} = 620 \text{ pF}$	500 V	Silvered mica				Multilayer
$C_{55} = 180 \text{ pF}$	500 V	N750		s = 1.0 nF	50 V	
$C_{56} = 180 \text{ pF}$	500 V	N750		6 = 1.0 nF	50 V	
$C_{57} = 390 \text{ pF}$	500 V	Silveredmica		7 = 1.0 nF	50 V	1750
$C_{58} = 68 \text{ pF}$	500 V	NP0		s = 470 pF	50 V	N750
$C_{59} = 560 \text{ pF}$	500 V	Silveredmica	C 119	$\rho = 100 \text{ nF}$	50 V	

```
C_{120} = 100 \text{ nF}
                              50 V
                                                                                                    R_{54} = 22 K_{\Omega}
                                                                                                                                  ^{1}/_{4}W
C_{121} = 100 \text{ nF}
                              50 V
                                                                                                    R_{55} = 2.2 \text{ K}_{\Omega}
                                                                                                                                  ^{1}/_{4}W
                                                                                                    R_{56} = 2.2 K_{\Omega}
   _{122} = 100 \text{ nF}
                              50 V
                                                                                                                                  ^{1}/_{4}W
                                                                                                    R_{57} = 22 K_{\Omega}
   _{123} = HCU06C100 \text{ 1-5 pF (Blue)}
                                                                                                                                  \frac{1}{4}W
C_{124} = 1.0 pF
                                                                                                    R_{58} = 470 \,\Omega
                              50 V
                                                                                                                                  ^{1}/_{4}W
C_{125} = 22 \mu F
                                                                                                    R 59 = 10 \text{ K}\Omega
                              25 V
                                                                                                                                  ^{1}/_{4}W
C_{126} = 22 \mu F
                              25 V
                                                                                                    R_{60} = 330 \Omega
                                                                                                                                  2W
C_{127} = 1.0 pF
                              50 V
                                                                                                    R_{61} = 4.7 \text{ K}_{\Omega}
                                                                                                                                  ^{1}/_{4}W
R_1 = 22 K_{\Omega}
                              \frac{1}{4}W
                                                                                                    R_{62} = 4.7 \text{ K}_{\Omega}
                                                                                                                                  ^{1}/_{4}W
R_2 = 47 K_{\Omega}
                                                                                                    R_{63} = 4.7 \text{ K}_{\Omega}
                              \frac{1}{4}W
                                                                                                                                  \frac{1}{4}W
R_3
         = 1.0 \text{ K}_{\Omega}
                              ^{1}/_{4}W
                                                                                                    R_{64} = 4.7 \text{ K}_{\Omega}
                                                                                                                                  \frac{1}{4}W
                                                                                                    R_{65} = 2.2 \text{ K}_{\Omega}
R 4
         = 100 \text{ K}_{\Omega}
                              \frac{1}{4}W
                                                                                                                                  ^{1}/_{4}W
         = 100 \text{ K}\Omega
                              \frac{1}{4}W
                                                                                                    R_{66} = 4.7 \text{ K}_{\Omega}
                                                                                                                                  ^{1}/_{4}W
R 5
                              \frac{1}{4}W
                                                                                                                                  ^{1}/_{4}W
R 6
         =22 \text{ K}_{\Omega}
                                                                                                    R_{67} = 4.7 K_{\Omega}
R 7
         =4.7 \text{ K}_{\Omega}
                              \frac{1}{4}W
                                                                                                    R_{68} = 47 \Omega
                                                                                                                                  \frac{1}{4}W
         =4.7 \text{ K}_{\Omega}
                                                                                                    R_{69} = 47 \Omega
R 8
                              ^{1}/_{4}W
                                                                                                                                  ^{1}/_{4}W
R 9
         = 10 \text{ K}_{\Omega}
                              ^{1}/_{4}W
                                                                                                    R_{70} = 47 \Omega
                                                                                                                                  \frac{1}{4}W
R_{10} = 10 K_{\Omega}
                              ^{1}/_{4}W
                                                                                                    R_{71} = 47 \Omega
                                                                                                                                  \frac{1}{4}W
R_{11} = 10 K_{\Omega}
                                                                                                    R_{72} = 4.7 K_{\Omega}
                                                                                                                                  ^{1}/_{4}W
                              multi-turn trimmer
R_{12} = 1.0 \text{ K}_{\Omega}
                                                                                                    R_{73} = 4.7 K_{\Omega}
                                                                                                                                  ^{1}/_{4}W
                              ^{1}/_{4}W
                                                                                                    R_{74} = 4.7 K_{\Omega}
R_{13} = 10 \text{ K}_{\Omega}
                              ^{1}/_{4}W
                                                                                                                                  ^{1}/_{4}W
R_{14} = 1.0 M_{\Omega}
                              ^{1}/_{4}W
                                                                                                    R_{75} = 4.7 K_{\Omega}
                                                                                                                                  ^{1}/_{4}W
R_{15} = 4.7 \text{ K}_{\Omega}
                              ^{1}/_{4}W
                                                                                                    R_{76} = 4.7 \text{ K}_{\Omega}
                                                                                                                                  ^{1}/_{4}W
R_{16} = 4.7 \text{ K}_{\Omega}
                              ^{1}/_{4}W
                                                                                                    R_{77} = 4.7 \text{ K}_{\Omega}
                                                                                                                                  ^{1}/_{4}W
R_{17} = 4.7 K_{\Omega}
                                                                                                    R_{78} = 4.7 K_{\Omega}
                              ^{1}/_{4}W
                                                                                                                                  \frac{1}{4}W
                                                                                                    R_{79} = 4.7 \text{ K}_{\Omega}
R_{18} = 10 \text{ K}_{\Omega}
                              \frac{1}{4}W
                                                                                                                                  \frac{1}{4}W
R_{19} = 10 K_{\Omega}
                              \frac{1}{4}W
                                                                                                    R_{80} = 1.0 \text{ K}_{\Omega}
                                                                                                                                  \frac{1}{4}W
                                                                                                                                  ^{1}/_{4}W + Zener 5,1V ^{1}/_{2}W
R_{20} = 1.0 \text{ K}_{\Omega}
                              \frac{1}{4}W
                                                                                                    R_{81} = 220 \Omega
R_{21} = 33 \Omega
                              5W
                                                                                                    R_{82} = 4.7 K_{\Omega}
                                                                                                                                  ^{1}/_{4}W
R_{22} = 10 \text{ K}_{\Omega}
                              \frac{1}{4}W
                                                                                                    R_{83} = 6.8 K_{\Omega}
                                                                                                                                  ^{1}/_{4}W
R_{24} = 680\Omega
                              ^{1}/_{4}W
                                                                                                    R_{84} = 33 \Omega
                                                                                                                                  5W
R_{25} = 1.0 \Omega
                              \frac{1}{2}W
                                                                                                    R_{85} = 33 \Omega
                                                                                                                                  5W
                                                                                                    \begin{array}{ll} Rr_1 &= 8 \; x \; 270 \; \Omega^{\; 1} / \!\!\! W \\ Rr_2 &= 8 \; x \; 270 \; \Omega^{\; 1} / \!\!\! ^8 W \end{array}
R_{26} = 33 \Omega
                              5W
R_{27} = 33 \Omega
                              5W
                                                                                                    Rr_3 = 8 \times 470 \Omega^{1/0} W
R_{28} = 470 \,\Omega
                              5W
                                                                                                    NTC 1 = 4.7 \text{ K}\Omega
R_{29} = 470 \,\Omega
                              5W
R_{30} = 330 \Omega
                              2W
                                                                                                    Trim 1 = 220 \text{ K}\Omega \text{ PT}10\text{LV}
R_{31} = 33 \Omega
                              5W
                                                                                                    B_1 = Buzzer 12V ARIMB12A12
R_{32} = 33 \Omega
                              5W
                                                                                                    D_1 \text{ to } D_4 = 1N4148
R_{33} = 100 \Omega
                              2W
                                                                                                    D_5 = 1N5711
R_{34} = 100 \Omega
                              2W
                                                                                                    D_6 to D_{10} = 1N4148
R_{35} = 10 \Omega
                              \frac{1}{2}W
                                                                                                    D<sub>11</sub> to D<sub>12</sub>= 1N4007
                              \frac{1}{2}W
                                                                                                    D_{13} = 1N5400
R_{36} = 10 \Omega
R_{37} = 10 \Omega
                              \frac{1}{2}W
                                                                                                    D_{14} = 1N4148
R_{38} = 10 \Omega
                              \frac{1}{2}W
                                                                                                    D_{15} to D_{17} = 1N5711
                              5W
R_{39} = 68 \Omega
                                                                                                    D_{18} = 1N4148
R_{40} = 68 \Omega
                              5W
                                                                                                    D_{19 \text{ to }} D_{20} = 1N4007
R_{41} = 68 \Omega
                              5W
                                                                                                    D_{21} = 1N4148
R_{42} = 68 \Omega
                              5W
                                                                                                    D_{22} to D_{28} = 1N4007
R_{43} = 100 \,\Omega
                              2W
                                                                                                    D_{29 \text{ to } D_{31}} = 1N5400
R_{44} = 100 \text{ K}_{\Omega}
                             ^{1}/_{4}W
                                                                                                    Dz_1 = Zener 5.1 V
                                                                                                                                            \frac{1}{2}W
R_{45} = 12 K_{\Omega}
                              ^{1}/_{4}W
                                                                                                    Dz_2 = Zener 10 V
                                                                                                                                            1W
R_{46} = 47 K_{\Omega}
                              ^{1}/_{4}W
                                                                                                    Led_1 = green
R_{47} = 4.7 \text{ K}_{\Omega}
                              ^{1}/_{4}W
                                                                                                    Led 2 to Led 3 = \text{red}
R_{48} = 10 \text{ K}_{\Omega}
                              \frac{1}{4}W
                                                                                                    Led 4 to Led 10 = green
R_{49} = 10 \text{ K}\Omega
                              \frac{1}{4}W
                                                                                                    Led_{11} = yellow
                              ^{1}/_{4}W
R_{50} = 1.0 \text{ K}_{\Omega}
                                                                                                    Led 12 to Led 17 = green
R_{51} = 47 \Omega
                              ^{1}/_{4}W
                                                                                                    Led_{18} = vellow
R_{52} = 1.0 \text{ K}_{\Omega}
                                                                                                    Fuse 1 to Fuse 4 = 10 A Fast
                              ^{1}/_{4}W
R_{53} = 22 K_{\Omega}
                                                                                                    Ic_1 = 74HC14
                              ^{1}/_{4}W
```

- $Ic_2 = 74HC393$ Ic $_3$ = Micro RM20 $Ic_4 = LM358$
- Ic $_5 = LM 7805$
- Ic $_{6} = 74HC595$
- = 74HC595Ic 7
- Ic $_{8} = 74HC595$
- $Tr_1 = BF199$
- Tr_2 to $Tr_4 = BC 547 B$
- $Tr_5 = BC 337-25$ $Tr_6 = BD241BFP$
- $Tr 7 Tr_{10} = SD 1446$
- $Tr_{11} = BDX53BFP$
- $Tr_{12} Tr_{19} = BC 547 B$
- $Scr_1 = P0102$
- $R1_1 = 4152.9.012$
- $R1_2 = 3022.9.012$
- $R1_3$ to $R1_8 = 4152.9.012$
- $T_1 = Input Decoupler Transformer$
- T₂ and T₃=Input Transformers
- T 4 and T 5 = Output Transformers
- =Output Coupler Transformer
- = ANRA 700/12T 7
- $L_1 = 10 \,\mu\text{H}$
- $L_{2 \text{ and } L_{3}} = FH002100$
- =ANRA883 L 4
- $L_{5 \text{ to } L_{8}} = FH002110$
- $L_9 = ANRA 856/1$
- $L_{10} = ANRA 856/1$
- $L_{11} = ANRA 856$
- $L_{12} = ANRA 856/2$
- $L_{13} = ANRA 856/1$
- $L_{14} = ANRA 856/4$
- $L_{15} = ANRA 856/3$
- $L_{16} = ANRA 725/5$
- $L_{17} = ANRA 725/4$
- $L_{18} = ANRA 725/7$ $L_{19} = ANRA 725/6$
- $L_{20} = ANRA 725/9$
- $L_{21} = ANRA 725/8$
- $L_{22} = 10 \,\mu H$
- $L_{23} = 10 \,\mu H$
- $L_{24} = 10 \,\mu H$
- PTT = GP305522S₁ = JS606A 10A **S** 1
- S 2 = JS606A 10A
- S_3 = JS606A 10A
- S 4 =BL200012