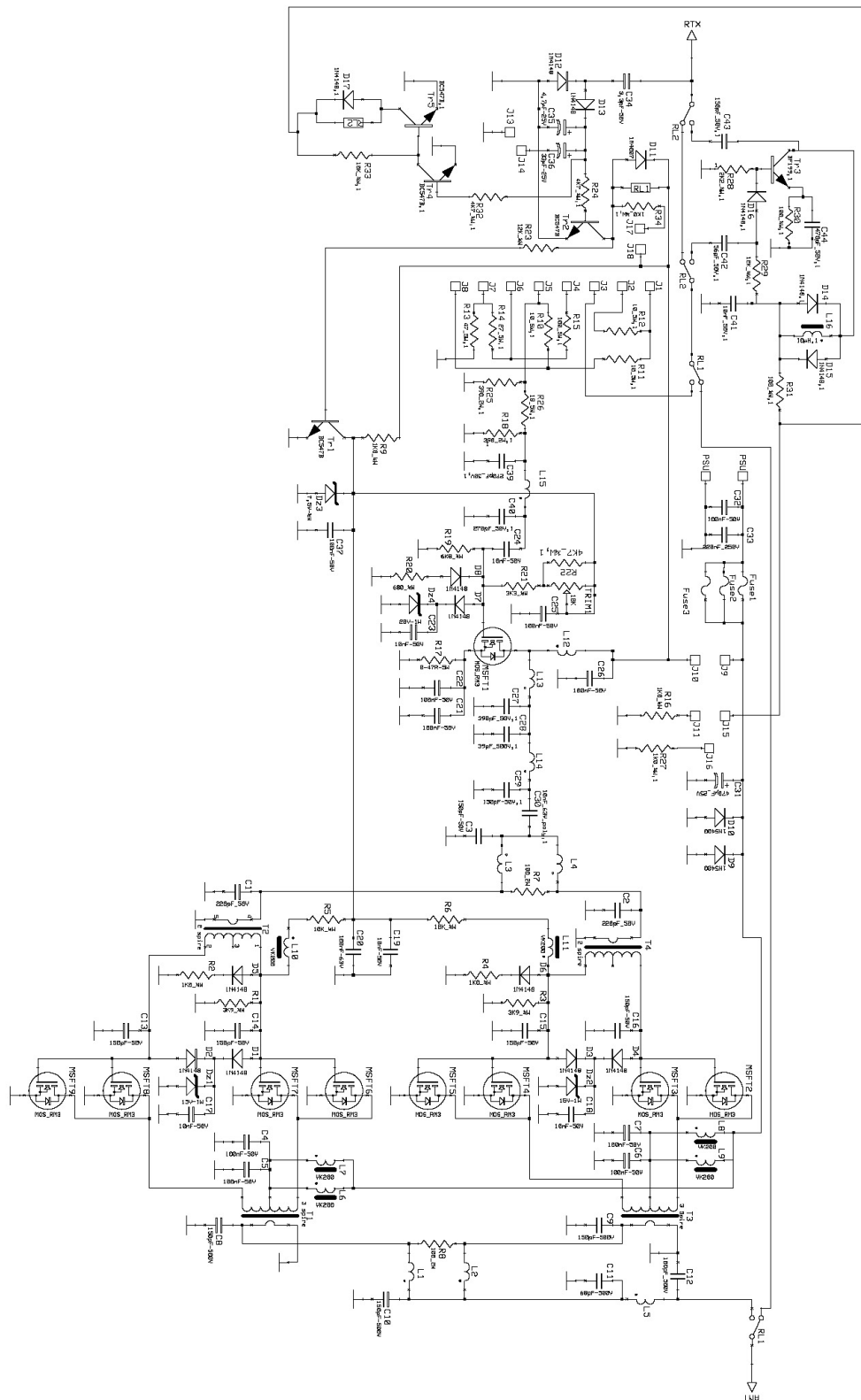


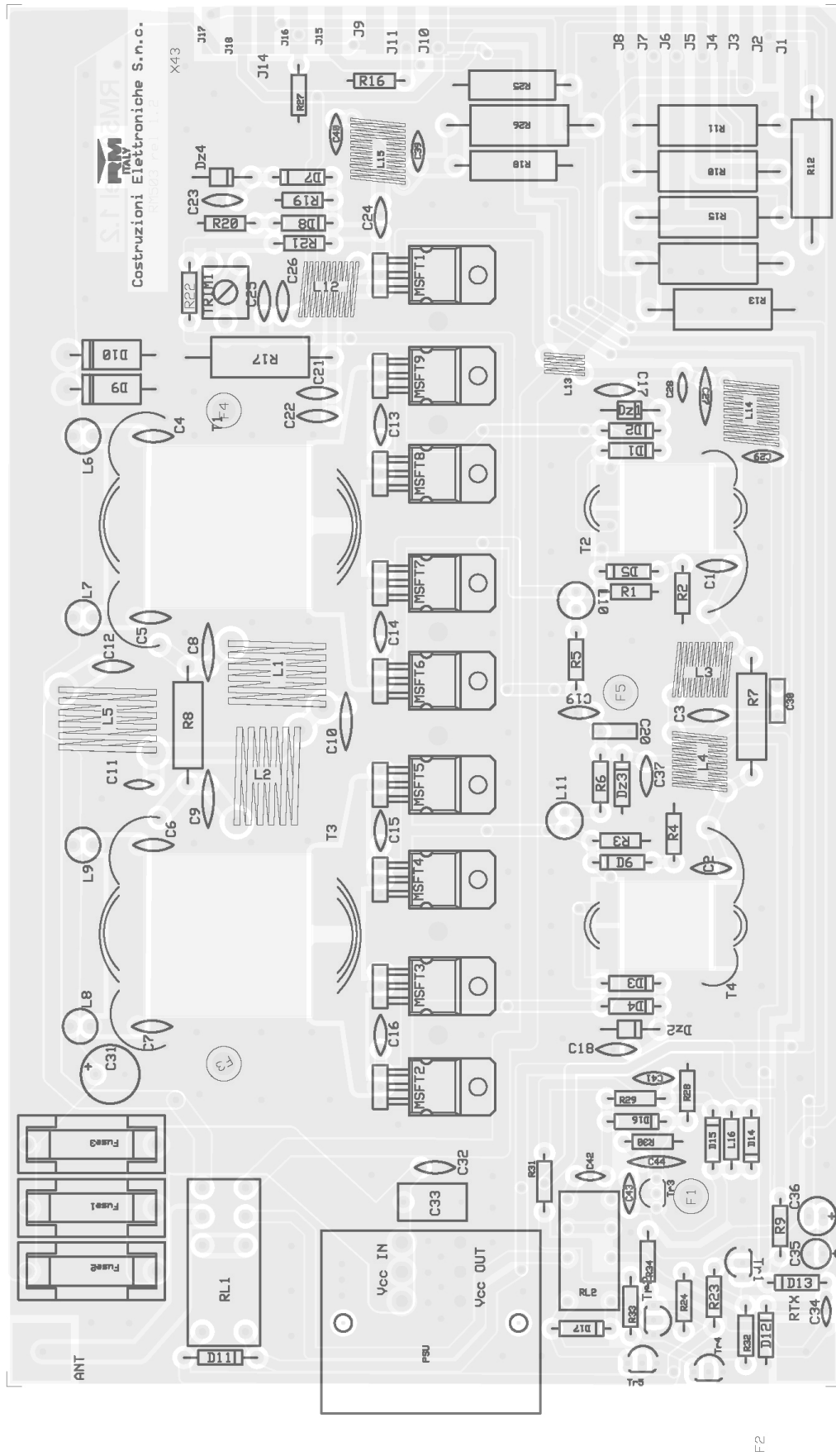
## Mod. KL 503 linear amplifier

Schematic diagram

Version 1.2



CAM350 V 1.0.0 : Fri Sep 04 14:37:53 2009 - (Untitled) : kl503\_mainhier\_00.gbr - mod



F2

## List of components

C <sub>1</sub> = 220 pF	50 V	NP0	R <sub>6</sub> = 10 K $\Omega$	¼W
C <sub>2</sub> = 220 pF	50 V	NP0	R <sub>7</sub> = 100 $\Omega$	2W
C <sub>3</sub> = 150 pF	50 V	NP0	R <sub>8</sub> = 100 $\Omega$	2W
C <sub>4</sub> = 100 nF	50 V		R <sub>9</sub> = 1,0 K $\Omega$	¼W
C <sub>5</sub> = 100 nF	50 V		R <sub>10</sub> = 10 $\Omega$	5W
C <sub>6</sub> = 100 nF	50 V		R <sub>11</sub> = 10 $\Omega$	5W
C <sub>7</sub> = 100 nF	50 V		R <sub>12</sub> = 10 $\Omega$	5W
C <sub>8</sub> = 150 pF	500 V	NP0	R <sub>13</sub> = 27 $\Omega$	5W
C <sub>9</sub> = 150 pF	500 V	NP0	R <sub>14</sub> = 47 $\Omega$	5W
C <sub>10</sub> = 150 pF	500 V	NP0	R <sub>15</sub> = 100 $\Omega$	5W
C <sub>11</sub> = 68 pF	500 V	NP0	R <sub>16</sub> = 1,0 K $\Omega$	¼W
C <sub>12</sub> = 100 pF	500 V	NP0	R <sub>17</sub> = 0,47 $\Omega$	5W
C <sub>13</sub> = 150 pF	50 V	NP0	R <sub>18</sub> = 390 $\Omega$	2W
C <sub>14</sub> = 150 pF	50 V	NP0	R <sub>19</sub> = 6,8 K $\Omega$	¼W
C <sub>15</sub> = 150 pF	50 V	NP0	R <sub>20</sub> = 680 $\Omega$	¼W
C <sub>16</sub> = 150 pF	50 V	NP0	R <sub>21</sub> = 3,3 K $\Omega$	¼W
C <sub>17</sub> = 10 nF	50 V	J	R <sub>22</sub> = 5,6 K $\Omega$	¼W
C <sub>18</sub> = 10 nF	50 V	J	R <sub>23</sub> = 12 K $\Omega$	¼W
C <sub>19</sub> = 10 nF	50 V	J	R <sub>24</sub> = 4,7 K $\Omega$	¼W
C <sub>20</sub> = 100 nF	63 V		R <sub>25</sub> = 390 $\Omega$	2W
C <sub>21</sub> = 100 nF	50 V		R <sub>26</sub> = 18 $\Omega$	5W
C <sub>22</sub> = 100 nF	50 V		R <sub>27</sub> = 1,0 K $\Omega$	¼W
C <sub>23</sub> = 10 nF	50 V	J	R <sub>28</sub> = 2,2 K $\Omega$	¼W
C <sub>24</sub> = 10 nF	50 V	J	R <sub>29</sub> = 12 K $\Omega$	¼W
C <sub>25</sub> = 100 nF	50 V	J	R <sub>30</sub> = 100 $\Omega$	¼W
C <sub>26</sub> = 100 nF	50 V	J	R <sub>31</sub> = 100 $\Omega$	¼W
C <sub>27</sub> = 390 pF	50 V	NP0	R <sub>32</sub> = 4,7 K $\Omega$	¼W
C <sub>28</sub> = 39 pF	500 V		R <sub>33</sub> = 10 K $\Omega$	¼W
C <sub>29</sub> = 150 pF	50 V	NP0	R <sub>34</sub> = 1,0 K $\Omega$	¼W
C <sub>30</sub> = 10 nF	50 V	J	D <sub>1</sub> = D <sub>2</sub> = D <sub>3</sub> = D <sub>4</sub> = D <sub>5</sub> = D <sub>6</sub> = D <sub>7</sub> = D <sub>8</sub> =	
C <sub>31</sub> = 470 $\mu$ F	25 V		D <sub>12</sub> = D <sub>13</sub> = D <sub>14</sub> = D <sub>15</sub> = D <sub>16</sub> = D <sub>17</sub> = 1N4148	
C <sub>32</sub> = 100 nF	50 V	J	D <sub>9</sub> = D <sub>10</sub> = 1N5408	
C <sub>33</sub> = 220 nF	100 V	Polyester	D <sub>11</sub> = 1N4007	
C <sub>34</sub> = 3,3 pF	50 V	NP0	D <sub>z1</sub> = D <sub>z1</sub> = 15V 1W	
C <sub>35</sub> = 4,7 $\mu$ F	25 V		D <sub>z3</sub> = 7V5 1W	
C <sub>36</sub> = 33 $\mu$ F	25 V		D <sub>z4</sub> = 20V 1W	
C <sub>37</sub> = 100 nF	50 V	J	MSFT <sub>2</sub> = MSFT <sub>3</sub> = MSFT <sub>4</sub> = MSFT <sub>5</sub> = MSFT <sub>6</sub> =	
C <sub>39</sub> = 270 pF	50 V	NP0	MSFT <sub>7</sub> = MSFT <sub>8</sub> = MSFT <sub>9</sub> = RM3	
C <sub>40</sub> = 270 pF	50 V	NP0	MSFT <sub>1</sub> = RM4	
C <sub>41</sub> = 10 nF	50 V	J	Tr <sub>3</sub> = BF199	
C <sub>42</sub> = 56 pF	50 V	NP0	Tr <sub>1</sub> = Tr <sub>2</sub> = Tr <sub>4</sub> = Tr <sub>5</sub> = BC547B	
C <sub>43</sub> = 150 pF	50 V	NP0	L <sub>10</sub> = L <sub>11</sub> = WK 200 1 wire vertical	
C <sub>44</sub> = 470 pF	50 V	NP0	L <sub>6</sub> = L <sub>7</sub> = L <sub>8</sub> = L <sub>9</sub> = VK 200 2 wire vertical	
R <sub>1</sub> = 3,9 K $\Omega$	¼W			
R <sub>2</sub> = 1,0 K $\Omega$	¼W			
R <sub>3</sub> = 3,9 K $\Omega$	¼W			
R <sub>4</sub> = 1,0 K $\Omega$	¼W			
R <sub>5</sub> = 10 K $\Omega$	¼W			

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**List of components**

$L_{16} = 10 \mu\text{H}$

$L_1 = L_2 = 7\text{sp\_f1.5\_d13\_p11}$  ANRA 856/2

$L_5 = 5\text{sp\_f1.5\_d11\_p8}$  ANRA 856

$L_3 = L_4 = L_{12} = 9\text{sp\_f0.8\_d8\_p10}$  ANRA 309/1

$L_{13} = 3\text{sp\_f0.8\_d5\_p3}$  ANRA 309/2

$L_{14} = 7\text{sp\_f0.8\_d8\_p10}$  ANRA 309/4

$L_{15} = 6\text{sp\_f0.8\_d8\_p10}$  ANRA 309/3

$RI_1 = \text{Relè } 12 \text{ V } 41.52.9.012$

$RI_2 = \text{Relè } 12 \text{ V } 30.22.7.012$

Fuse = 3 x 10 A Fast

$T_2 = T_4 = \text{Anra } 42$  Input transformer 16cm filo blu

$T_1 = T_3 = \text{Anra } 355\text{B}$  Output transformer 36.5cm filo  
teflon

PSU Conn = PC 16/2-GF-10,16