



# RM

# Costruzioni Elettroniche

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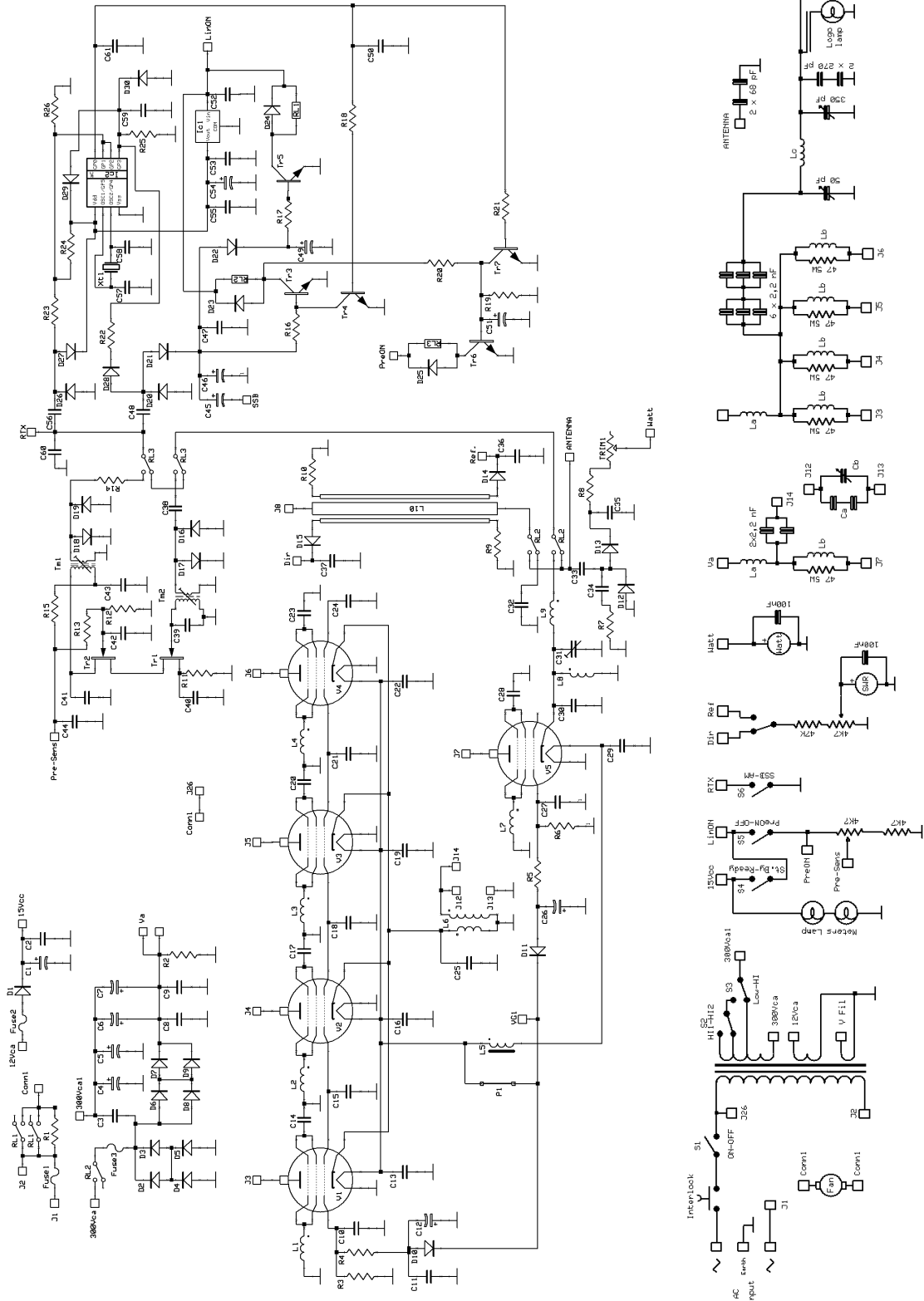
E-MAIL ufftec@rmitaly.com

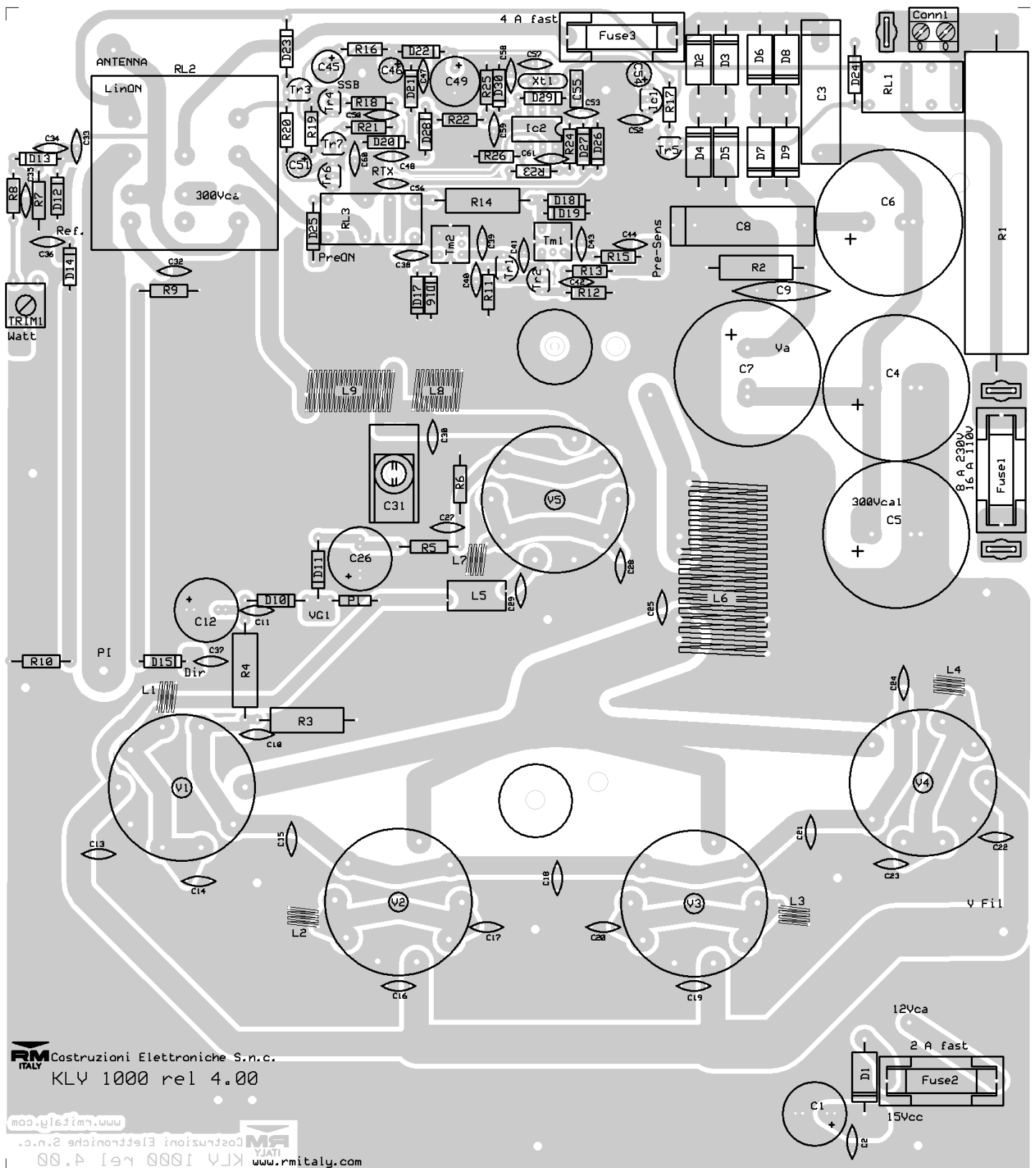
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## Mod. KLV 1000 P linear amplifier

### Schematic diagram

Version 4.00





**RM** ITALY Costruzioni Elettroniche S.n.c.  
KLV 1000 rel 4.00

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### List of components

C 1 = 2200 $\mu$ F 25 V	C 6 = 100 $\mu$ F 450 V
C 2 = 100 nF 50V	C 7 = 100 $\mu$ F 450 V
C 3 = 470 nF 630 V~	C 8 = 22 nF 1000 V polyester
C 4 = 100 $\mu$ F 450 V	C 9 = 6,8 nF 1500 V
C 5 = 100 $\mu$ F 450 V	C 10 = 100 nF 50V

C <sub>11</sub> = 100 nF	50V		C <sub>61</sub> = 10 nF	50V	
C <sub>12</sub> = 470 µF	50 V		Ca = 2 x 100 pF	500V	N750
C <sub>13</sub> = 100 nF	50V		Cb = Variable	condensator	50 pF
C <sub>14</sub> = 150 pF	500 V	N750	R <sub>1</sub> = 2,2 KΩ	17W (220-240 V)	
C <sub>15</sub> = 100 nF	50V		R <sub>1</sub> = 820 Ω	17W (110 V)	
C <sub>16</sub> = 100 nF	50V		R <sub>2</sub> = 470 KΩ	2W	
C <sub>17</sub> = 150 pF	500 V	N750	R <sub>3</sub> = 1,0 KΩ	2W	
C <sub>18</sub> = 100 nF	50V		R <sub>4</sub> = 100 Ω	2W	
C <sub>19</sub> = 100 nF	50V		R <sub>5</sub> = Not Present		
C <sub>20</sub> = 150 pF	500 V	N750	R <sub>6</sub> = Not Present		
C <sub>21</sub> = 100 nF	50V		R <sub>7</sub> = 27 Ω	½W	
C <sub>22</sub> = 100 nF	50V		R <sub>8</sub> = 150 KΩ	¼W	
C <sub>23</sub> = 150 pF	500 V	N750	R <sub>9</sub> = 100 Ω	½W	
C <sub>24</sub> = 100 nF	50V		R <sub>10</sub> = 100 Ω	½W	
C <sub>25</sub> = 82 pF	500 V	N750	R <sub>11</sub> = 180 Ω	¼W	
C <sub>26</sub> = Not Present			R <sub>12</sub> = 22 KΩ	¼W	
C <sub>27</sub> = Not Present			R <sub>13</sub> = 56 KΩ	¼W	
C <sub>28</sub> = Not Present			R <sub>14</sub> = 15 Ω	2W	
C <sub>29</sub> = Not Present			R <sub>15</sub> = 470 Ω	¼W	
C <sub>30</sub> = Not Present			R <sub>16</sub> = 2,2 KΩ	¼W	
C <sub>31</sub> = Not Present			R <sub>17</sub> = 2,2 KΩ	¼W	
C <sub>32</sub> = 470 pF	50 V	N750	R <sub>18</sub> = 1,0 KΩ	¼W	
C <sub>33</sub> = 2,2 pF	50 V	N750	R <sub>19</sub> = 680 Ω	¼W	
C <sub>34</sub> = 33 pF	50 V	N750	R <sub>20</sub> = 12 KΩ	¼W	
C <sub>35</sub> = 100 nF	50 V		R <sub>21</sub> = 1,0 KΩ	¼W	
C <sub>36</sub> = 100 nF	50 V		R <sub>22</sub> = 56 KΩ	¼W	
C <sub>37</sub> = 100 nF	50 V		R <sub>23</sub> = 100 Ω	¼W	
C <sub>38</sub> = 10 nF	50 V		R <sub>24</sub> = 10 KΩ	¼W	
C <sub>39</sub> = 27 pF	50 V	N750	R <sub>25</sub> = 1,0 MΩ	¼W	
C <sub>40</sub> = 10 nF	50 V		R <sub>26</sub> = 10 KΩ	¼W	
C <sub>41</sub> = 33 pF	50 V	N750	P <sub>1</sub> = 0 Ω	Bridge	
C <sub>42</sub> = 10 nF	50 V		TRIM <sub>1</sub> = 220 KΩ		
C <sub>43</sub> = 10 nF	50 V		D <sub>1</sub> = 1N5400		
C <sub>44</sub> = 100 nF	50 V		D <sub>2</sub> = D <sub>3</sub> = D <sub>4</sub> = D <sub>5</sub> = BY 255		
C <sub>45</sub> = 47 µF	16V		D <sub>6</sub> = D <sub>7</sub> = D <sub>8</sub> = D <sub>9</sub> = BY 255		
C <sub>46</sub> = 10 µF	16V		D <sub>10</sub> = D <sub>23</sub> = D <sub>24</sub> = D <sub>25</sub> = 1N4007		
C <sub>47</sub> = 100 nF	50 V		D <sub>11</sub> = Not Present		
C <sub>48</sub> = 8,2 pF	50 V	N750	D <sub>12</sub> = D <sub>13</sub> = D <sub>14</sub> = D <sub>15</sub> = D <sub>16</sub> = 1N4148		
C <sub>49</sub> = 330 µF	16V		D <sub>17</sub> = D <sub>18</sub> = D <sub>19</sub> = D <sub>20</sub> = D <sub>21</sub> = D <sub>22</sub> = 1N4148		
C <sub>50</sub> = 10 nF	50 V		D <sub>26</sub> = D <sub>27</sub> = D <sub>28</sub> = D <sub>29</sub> = D <sub>30</sub> = 1N4148		
C <sub>51</sub> = 10 µF	16V		Tr <sub>1</sub> = Tr <sub>2</sub> = BF 245		
C <sub>52</sub> = 100 nF	50 V		Tr <sub>3</sub> = BC 337		
C <sub>53</sub> = 100 nF	50 V		Tr <sub>4</sub> = Tr <sub>5</sub> = Tr <sub>6</sub> = Tr <sub>7</sub> = BC 547		
C <sub>54</sub> = 22 µF	16V		Ic <sub>1</sub> = LM 78L05		
C <sub>55</sub> = 100 nF	63 V	polyester	Ic <sub>2</sub> = PIC 12C508A (RM1)		
C <sub>56</sub> = 1,0 pF	50 V	N750	Xt <sub>1</sub> = 4,0 MHz		
C <sub>57</sub> = 27 pF	50 V	N750	V <sub>1</sub> = V <sub>2</sub> = V <sub>3</sub> = V <sub>4</sub> = EL 509 - EL 519		
C <sub>58</sub> = 27 pF	50 V	N750	V <sub>5</sub> = Not Present		
C <sub>59</sub> = 10 nF	50 V		L <sub>1</sub> = L <sub>2</sub> = L <sub>3</sub> = L <sub>4</sub> = ANRA 309/2		
C <sub>60</sub> = 27 pF	50 V	N750	L <sub>5</sub> = L <sub>7</sub> = L <sub>8</sub> = L <sub>9</sub> = Not Present		

L<sub>6</sub> = ACC-KLV1000P

L<sub>10</sub> = On circuit

La = RF block Impedance

Lb = 3 turns wound on resistor wire  $\varnothing$  0.8 mm

Lc = 3 turns  $\varnothing$  34 mm wire  $\varnothing$  3,0 mm

Rl<sub>1</sub> = Rl<sub>3</sub> = Relè 12 V 3022

Rl<sub>2</sub> = Relè 12 V 6223

Fuse<sub>1</sub> = 8 A (220-240 V)

Fuse<sub>1</sub> = 16 A (110 V)

Fuse<sub>2</sub> = 2 A

Fuse<sub>3</sub> = 4 A

Tm<sub>1</sub> = Tm<sub>2</sub> = Transformers 6835