



# RM

# Costruzioni Elettroniche

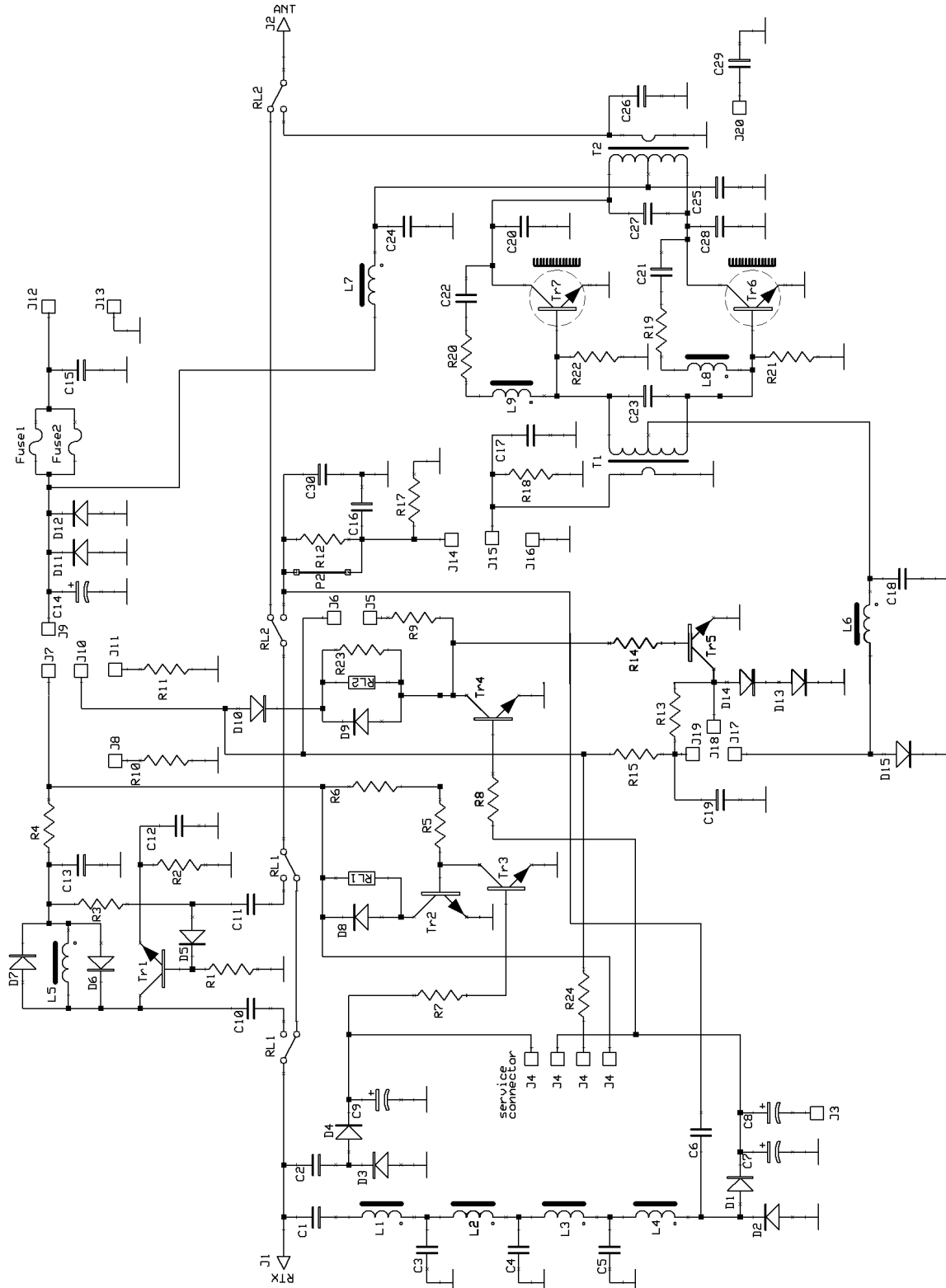
di Marchioni Davide & Daniele s.n.c.

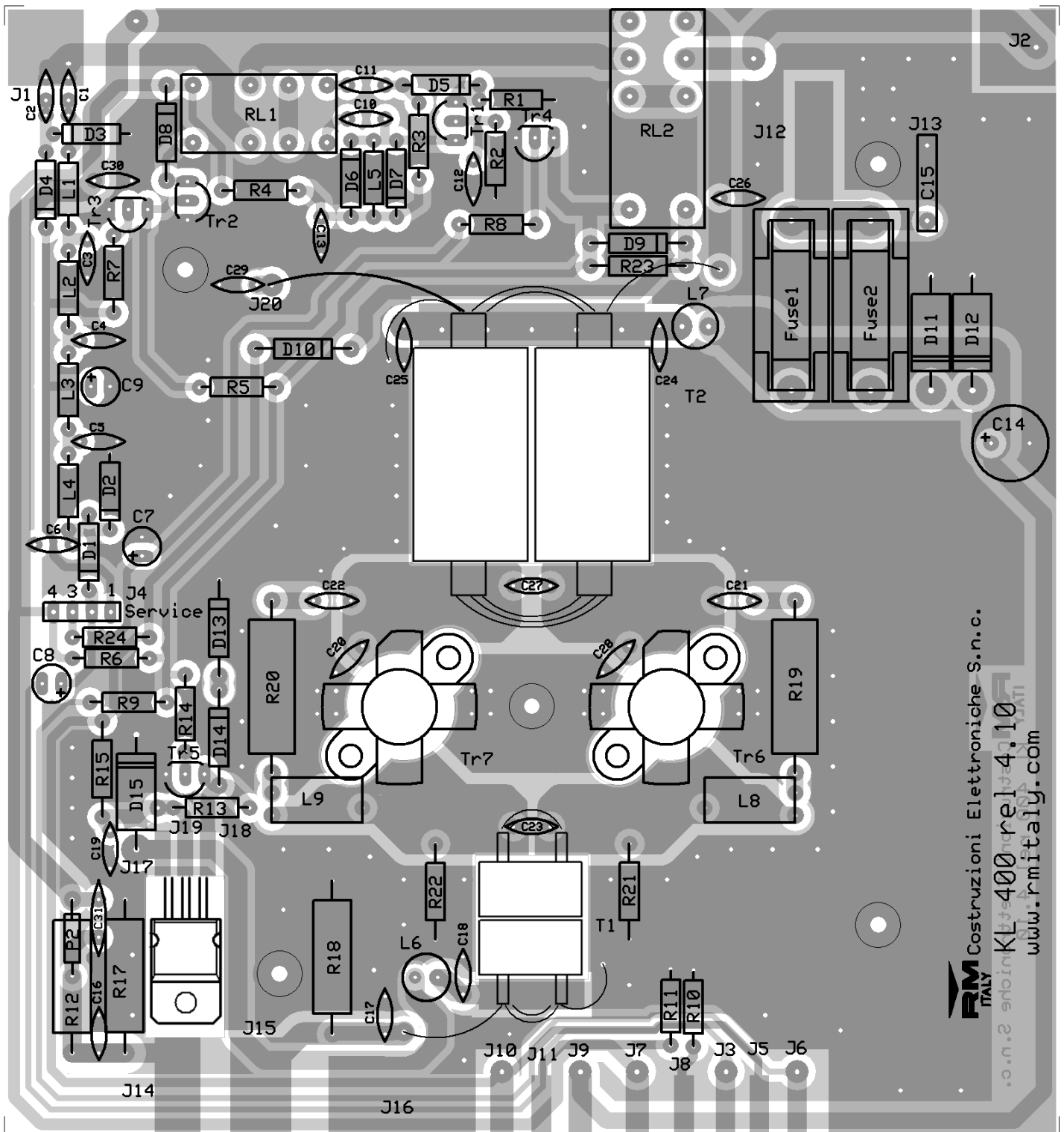
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## Mod. KL 400 linear amplifier

Schematic diagram

Version 4.10





Costruzioni Elettroniche S.n.c.  
 RM ITALY  
 KL400rel4.10  
 www.rmitaly.com

**List of components**

|              |      |     |               |       |           |
|--------------|------|-----|---------------|-------|-----------|
| C 1 = 3,3 pF | 50 V | NP0 | C 8 = 33 µF   | 16 V  |           |
| C 2 = 8,2 pF | 50 V | NP0 | C 9 = 10 µF   | 16 V  |           |
| C 3 = 82 pF  | 50 V | NP0 | C 10 = 150 pF | 50 V  | NP0       |
| C 4 = 100 pF | 50 V | NP0 | C 11 = 56 pF  | 50 V  | NP0       |
| C 5 = 100 pF | 50 V | NP0 | C 12 = 470 pF | 50 V  | N750      |
| C 6 = 5,6 pF | 50 V | NP0 | C 13 = 10 nF  | 50 V  |           |
| C 7 = 2,2 µF | 16 V |     | C 14 = 470 µF | 25V   |           |
|              |      |     | C 15 = 470 nF | 100 V | Polyester |

|                                 |              |  |                                      |
|---------------------------------|--------------|--|--------------------------------------|
| C <sub>16</sub> = not present   |              |  | D <sub>12</sub> = 1N5400             |
| C <sub>17</sub> = 180 pF 50 V   | NP0          |  | D <sub>13</sub> = 1N4004             |
| C <sub>18</sub> = 10 nF 50 V    |              |  | D <sub>14</sub> = 1N4004             |
| C <sub>19</sub> = 100 nF 50 V   |              |  | D <sub>15</sub> = 1N5400             |
| C <sub>20</sub> = 220 pF 500 V  | N750         |  | Tr <sub>1</sub> = BF 199             |
| C <sub>21</sub> = 47 nF 50 V    |              |  | Tr <sub>2</sub> = BC 547             |
| C <sub>22</sub> = 47 nF 50 V    |              |  | Tr <sub>3</sub> = BC 547             |
| C <sub>23</sub> = not present   |              |  | Tr <sub>4</sub> = BC 547             |
| C <sub>24</sub> = 100 nF 50 V   |              |  | Tr <sub>5</sub> = BC 547             |
| C <sub>25</sub> = 100 nF 50 V   |              |  | Tr <sub>6</sub> = SD 1446            |
| C <sub>26</sub> = 47 pF 1000 V  | NP0          |  | Tr <sub>7</sub> = SD 1446            |
| C <sub>27</sub> = 1300 pF 500 V | Silveredmica |  | L <sub>1</sub> = 2,2 μH              |
| C <sub>28</sub> = 220 pF 500 V  | N750         |  | L <sub>2</sub> = 2,2 μH              |
| C <sub>29</sub> = not present   |              |  | L <sub>3</sub> = 2,2 μH              |
| C <sub>30</sub> = not present   |              |  | L <sub>4</sub> = 2,2 μH              |
| C <sub>31</sub> = 270 pF 500 V  | N750         |  | L <sub>5</sub> = 10 μH               |
| R <sub>1</sub> = 2,2 KΩ ¼W      |              |  | L <sub>6</sub> = VK 200 1 wire       |
| R <sub>2</sub> = 100 Ω ¼W       |              |  | L <sub>7</sub> = VK 200 2 wires      |
| R <sub>3</sub> = 12 KΩ ¼W       |              |  | RI <sub>1</sub> = Relè 12 V 30229012 |
| R <sub>4</sub> = 100 Ω ¼W       |              |  | RI <sub>2</sub> = Relè 12 V 41529012 |
| R <sub>5</sub> = 4,7 KΩ ¼W      |              |  | Fuse = 2 x 12A 5x20 Fast             |
| R <sub>6</sub> = 4,7 KΩ ¼W      |              |  | T <sub>1</sub> = Input transformer   |
| R <sub>7</sub> = 2,2 KΩ ¼W      |              |  | T <sub>2</sub> = Output transformer  |
| R <sub>8</sub> = 2,2 KΩ ¼W      |              |  |                                      |
| R <sub>9</sub> = 1,0 KΩ ¼W      |              |  |                                      |
| R <sub>10</sub> = 1,0 KΩ ¼W     |              |  |                                      |
| R <sub>11</sub> = 1,0 KΩ ¼W     |              |  |                                      |
| R <sub>12</sub> = 27 Ω 2W       |              |  |                                      |
| R <sub>13</sub> = 1,2 KΩ ¼W     |              |  |                                      |
| R <sub>14</sub> = 12 KΩ ¼W      |              |  |                                      |
| R <sub>15</sub> = 1,0 Ω ½W      |              |  |                                      |
| R <sub>17</sub> = not present   |              |  |                                      |
| R <sub>18</sub> = 150 Ω 2W      |              |  |                                      |
| R <sub>19</sub> = 68 Ω 2W       |              |  |                                      |
| R <sub>20</sub> = 68 Ω 2W       |              |  |                                      |
| R <sub>21</sub> = 10 Ω ½W       |              |  |                                      |
| R <sub>22</sub> = 10 Ω ½W       |              |  |                                      |
| R <sub>23</sub> = not present   |              |  |                                      |
| R <sub>24</sub> = 2,2 KΩ ¼W     |              |  |                                      |
| D <sub>1</sub> = 1N4148         |              |  |                                      |
| D <sub>2</sub> = 1N4148         |              |  |                                      |
| D <sub>3</sub> = 1N4148         |              |  |                                      |
| D <sub>4</sub> = 1N4148         |              |  |                                      |
| D <sub>5</sub> = 1N4148         |              |  |                                      |
| D <sub>6</sub> = 1N4148         |              |  |                                      |
| D <sub>7</sub> = 1N4148         |              |  |                                      |
| D <sub>8</sub> = 1N4004         |              |  |                                      |
| D <sub>9</sub> = 1N4004         |              |  |                                      |
| D <sub>10</sub> = 1N4004        |              |  |                                      |
| D <sub>11</sub> = 1N5400        |              |  |                                      |