



| Comment       | Description                                                                               | Designator                               | Footprint       | LibRef          | Quantity |
|---------------|-------------------------------------------------------------------------------------------|------------------------------------------|-----------------|-----------------|----------|
| 22p           |                                                                                           | C1, C2                                   | CF21            | CAP             | 4        |
| 10nF          |                                                                                           | C3, C4, C5                               | CF21            | CAP             | 6        |
| 100nF         |                                                                                           | C6, C7                                   | CF21            | CAP             | 4        |
| 100n          |                                                                                           | C8, C14, C15, C24, C25                   | CF21            | CAP             | 10       |
| 100uF         |                                                                                           | C9, C10, C11, C12, C13                   | CAP_EL_1        | ELECTRO2        | 10       |
| 1u            |                                                                                           | C16, C17, C18, C19, C20<br>C21, C22, C23 | CAP_EL_1        | ELECTRO2        | 16       |
| 1N4007        |                                                                                           | D1, D2                                   | DIODE_2         | DIODE           | 4        |
| DIN41612      |                                                                                           | J2                                       | DIN41612_32AC_M | DIN41612_32AC_M | 1        |
| DIN41612-32P  |                                                                                           | J2                                       | DIN41612_32AC_M | DIN41612_32AC_M | 1        |
| CONN PRG      |                                                                                           | JP1                                      | IDC10           | HEADER 10       | 2        |
| 10K           |                                                                                           | R1, R4, R5, R7, R7A, R8<br>R8A           | RES41           | RES1            | 12       |
| 470R          |                                                                                           | R2                                       | RES41           | RES1            | 2        |
| 1R            |                                                                                           | R3                                       | RES41           | RES1            | 2        |
| 50K           |                                                                                           | R6, R6A                                  | TRIMMER_89P     | POT1            | 3        |
| 240R          |                                                                                           | R9                                       | RES41           | RES1            | 1        |
| 100           |                                                                                           | R9, R10                                  | RES41           | RES1            | 2        |
| 390R          |                                                                                           | R10                                      | RES41           | RES1            | 1        |
| RES1          |                                                                                           | R11, R12, R13, R22, R23<br>R24, R25, R26 | RES41           | RES1            | 16       |
| RES1          |                                                                                           | R14, R15, R16, R17, R18<br>R19, R20, R21 | TRIMMER_89P     | POT1            | 16       |
| ATmega32-16PC | 8-Bit AVR Microcontroller<br>with 32K Bytes of In-<br>System Programmable<br>Flash Memory | U1                                       | DIP40           | ATmega32-16PC   | 2        |
| AD420AN-32    |                                                                                           | U2                                       | DIP24_A         | AD420           | 2        |
| PCF8591P      |                                                                                           | U3, U9                                   | DIP16           | PCF8591P        | 3        |
| 12V           |                                                                                           | U4                                       | TO-220H         | VOLTREG         | 2        |
| 5V            |                                                                                           | U5                                       | TO-220H         | VOLTREG         | 2        |
| 5V_ADC        |                                                                                           | U6                                       | TO-92A          | VOLTREG         | 2        |
| LM317         |                                                                                           | U7                                       | TO-220H         | REGOLATORE_1    | 2        |
| LM358         |                                                                                           | U8                                       | DIP8            | LM358           | 2        |
| XPORT         |                                                                                           | X1                                       | XPORT           | XPORT           | 2        |
| CRYSTAL       |                                                                                           | XTAL1                                    | XTAL1           | CRYSTAL         | 2        |