

BILL OF MATERIALS

Project: 3D PRINTERS
Title: CONTROL BOT
Reference: CONTROL-BOT_LM
Revision: 0
Date: 25/02/2015
Designed: A.M.P
Checked: J.F.A

CLONEBOT
 3D PRINTERS

| ITEM | REFERENCIA | IDENTIFICATIVO | CTD | VALOR | FABRICANTE | SUMINISTRADOR | DESCRIPCIÓN |
|------|------------|----------------|-----|-------|------------|---------------|-------------|
|------|------------|----------------|-----|-------|------------|---------------|-------------|

CONECTORES

| | | | | | | | |
|---|----------------------------------|--|----|-----|------------|-------------|--|
| 1 | 10104110-0001LF | J1 | 1 | N/A | FCI | RS 714-2344 | Micro USB-Tipe B |
| 2 | PM 5.08/2/90 3.5 SW - 1760510000 | P1, P2, P3, P4, P7, P10, P9 | 7 | N/A | WEIDMULLER | RS 425-8720 | Conector 2 Pines paso 5,08mm |
| 3 | 961102-6404-AR | JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9, JP10, JP11, JP12, JP13, JP14, JP15, JP16, JP17, J18, P14, P19, P23, P26, P33, P34 | 24 | N/A | 3M | RS 827-7775 | Conector Macho 2 Pines paso 2,54mm |
| 4 | 961103-6404-AR | P28, P29, P31, P32, P12, P13, P17, P18, P21, P22, P30 | 11 | N/A | 3M | RS 827-7784 | Conector Macho 3 Pines paso 2,54mm |
| 5 | 961104-6404-AR | P5, P8, P11, P15, P20, P25 | 6 | N/A | 3M | RS 827-7797 | Conector Macho 4 Pines paso 2,54mm |
| 6 | 961206-6404-AR | P16 | 1 | N/A | 3M | RS 827-7781 | Conector Macho doble 6 Pines paso 2,54mm |
| 7 | 960108-6202-AR | U1, U3, U5, U6, U8, U9 | 12 | N/A | 3M | RS 827-7734 | Conector Hembra de 8 Pines paso 2,54mm |
| 8 | 30310-6002HB | P24, P27 | 3 | N/A | 3M | RS 828-0364 | Conector doble 5 pines |

RESISTENCIAS

| | | | | | | | |
|----|-------------------|---|----|-----|-----------------|-------------|------------------|
| 9 | CG0603MLC-05LE | R21, R22 | 2 | N/A | BOURNS | RS 690-9938 | Varistor 0603 |
| 10 | CRCW080522R0FKEA | R19, R20 | 2 | 22 | VISHAI | RS 679-1112 | Resistencia 0805 |
| 11 | CRG0805F10K | R3, R6, R8, R12, R14, R23, R26, R27, R30, R33, R34, R36, R41, R42, R43, R44, R45, R46 | 18 | 10K | TE CONNECTIVITY | RS 223-0562 | Resistencia 0805 |
| 12 | CR0805-FX-4701GLF | R31, R32, R35, R37 | 4 | 4K7 | BOURNS | RS 740-9031 | Resistencia 0805 |
| 13 | CRG0805F1M0 | R38 | 1 | 1M | TE CONNECTIVITY | RS 223-0821 | Resistencia 0805 |
| 14 | CRG0805F1K0 | R4, R5, R13, R17, R18, R24, R25 | 7 | 1K | TE CONNECTIVITY | RS 223-0427 | Resistencia 0805 |
| 15 | CRCW08051K60FKEA | R9, R28, R29, R39, R40, R1, R2, R7, R16 | 9 | 1K6 | VISHAI | RS 679-1018 | Resistencia 0805 |

CONDENSADORES

| | | | | | | | |
|----|------------------|--|----|-------|-----------|-------------|----------------------------------|
| 16 | C0805C104K5RACTU | C11, C12, C15, C20, C22, C2, C6, C7, C8, C17, C18, C19, C21, C25 | 14 | 0.1uF | KEMET | RS 264-4416 | Condensador Ceramico 0805, 16V |
| 17 | C0805C220J5GACTU | C14, C23, C24 | 3 | 22pF | KEMET | RS 264-4258 | Condensador Ceramico 0805 |
| 18 | EEEF1V101AP | C1, C5, C9, C10, C13, C16 | 6 | 100uF | PANASONIC | RS 729-6273 | Condensador Aluminio Case-D, 35v |
| 19 | T491B226K016AT | C26 | 1 | 22uF | KEMET | RS 801-5451 | Condesador de Tantalo |
| 20 | EEEFK1V470AP | C3, C4 | 2 | 47uF | PANASONIC | RS 565-623 | Condensador Aluminio Case-D, 35v |

CIRCUITOS INTEGRADOS

| | | | | | | | |
|----|-----------------|-----|---|-----|----------------------|-------------|-----------------------------|
| 21 | ATMEGA2560-16AU | U7 | 1 | N/A | ATMEL | eBay | Microcontrolador Atmega2560 |
| 22 | FT232RL | U4 | 1 | N/A | FTDI | eBay | Conversor 232 a USB |
| 23 | MIC5209-3.3YS | U10 | 1 | N/A | MICREL SEMICONDUCTOR | RS 453-435 | Regulator DC-DC 3,3v |
| 24 | NCP1117ST50T3G | U2 | 1 | N/A | ON SEMICONDUCTOR | RS 802-2130 | Regulador DC-DC 5.0v |

DIODOS

| | | | | | | | |
|----|--------------|--|---|-------|-------------------|-------------|-----------------------------|
| 25 | MBR0520LT1G | D5, D13, D18 | 3 | N/A | ON SEMICONDUCTOR | RS 739-0521 | Default Diode |
| 26 | SMBJ12CA | D6 | 1 | N/A | STMICROELECTRONIC | RS 714-7140 | Diodo Transil Bidireccional |
| 27 | LTST-C171GKT | D9, D16, D17, D19, D20, D3, D4, D8, D15 | 9 | Verde | LITE-ON | RS 692-0935 | Led 0805 Verde |

TRANSISTORES

| | | | | | | | |
|----|----------------|----------------|---|-----|--------------|-------------|--------------------------------|
| 28 | ZVN2110GTA | Q4 | 1 | N/A | DIODES ZETEX | RS 155-135 | Diodo Mosfet Canal-N 0,5A |
| 29 | IPD90N04S03-04 | Q1, Q2, Q3, Q5 | 4 | N/A | INFINEON | RS 753-3030 | Transistor Mosfet Canal N, 90A |

OTROS

| | | | | | | | |
|----|----------------|--|----|-------|-----------------|-------------|----------------------------|
| 30 | MF-MSMF050 | F3 | 1 | N/A | BOURNS | RS 647-8156 | Fusible Rearmable SMD 0,5A |
| 31 | MF-R1100 | F1, F2 | 2 | N/A | BOURNS | RS 647-8651 | Fusible Rearmable 11A |
| 32 | AKSCT/Z BLACK | JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9, JP10, JP11, JP12, JP13, JP14, JP15, JP16, JP17, JP18 | 18 | N/A | ASSMANN WSW | RS 674-2397 | Jumper |
| 33 | BLM21PG220SH1D | L1 | 1 | N/A | MURATA | RS 792-6319 | Bobina anti EMI |
| 34 | 4-1437565-1 | S1 | 1 | N/A | TE CONNECTIVITY | RS 479-1508 | Switch |
| 35 | FOXSDLF/160-20 | Y1 | 1 | 16Mhz | FOX | RS 547-6531 | Crystal Oscillator 16Mhz |