

Bill Of Materials for DPSE_grupo4

Design Title DPSE_grupo4
Author Grupo 4
Document Number
Revision
Design Created lunes, 17 de febrero de 2025
Design Last Modified lunes, 10 de marzo de 2025
Total Parts In Design 116

| | | | | | |
|-----------------------|--------------------------------------|-------------------|---------------------|--------------|----------------|
| 2 Modules | | | | | |
| Quantity | References | Value | PCB Package | Farnell code | Price per unit |
| 1 | M2 | VIBRATOR | VIBRATOR | Aliexpress | 1,089€ |
| 1 | M4 | TFT_3_98 | TFT_3.98 | Aliexpress | 15,17€ |
| Sub-totals: | | | | | 16,2590€ |
| 23 Capacitors | | | | | |
| Quantity | References | Value | PCB Package | Farnell code | Price per unit |
| 2 | C1-C2 | 18pF | 0805 | | 0,0182€ |
| 5 | C3-C6,C20 | 100nF | 0805 | | 0,0182€ |
| 8 | C7-C11,C19,C26-C27 | 22uF | 0805 | | 0,0182€ |
| 6 | C16-C18,C21,C24-C25 | 1uF | 0805 | | 0,0182€ |
| 2 | C22-C23 | 22nF | 0805 | | 0,0182€ |
| Sub-totals: | | | | | 0,4186€ |
| 34 Resistors | | | | | |
| Quantity | References | Value | PCB Package | Farnell code | Price per unit |
| 22 | R1,R4,R7,R11,R14,R17,R20-R27,R31-R38 | 10k | 0805 | | 0,0125€ |
| 3 | R2,R9-R10 | 0R1 | 0805 | | 0,0125€ |
| 1 | R3 | 71K5 | 0805 | | 0,0125€ |
| 1 | R5 | 220R | 0805 | | 0,0125€ |
| 2 | R6,R13 | 33k | 0805 | | 0,0125€ |
| 1 | R8 | 2K2 | 0805 | | 0,0125€ |
| 2 | R15-R16 | 470R | 0805 | | 0,0125€ |
| 2 | R18-R19 | 3k3 | 0805 | | 0,0125€ |
| Sub-totals: | | | | | 0,4250€ |
| 6 Integrated Circuits | | | | | |
| Quantity | References | Value | PCB Package | Farnell code | Price per unit |
| 1 | U1 | LPC2106FBD48/01 | SQFP48-7X7 | 1832283 | 15,04€ |
| 2 | U2,U4 | MCP1725-ADJ E/SN | SO8 | 1834878 | 0,658€ |
| 1 | U3 | MCP73831T-2ACI_OT | SOT23-5 | 1332158 | 0,754€ |
| 1 | U8 | CY7C65213-28PVXI | SSOP28 | 2767866 | 1,84€ |
| 1 | U15 | PAM8403DR | SOIC127P600X126-16N | 3373823 | 0,672€ |
| Sub-totals: | | | | | 19,6220€ |
| 1 Transistors | | | | | |
| Quantity | References | Value | PCB Package | Farnell code | Price per unit |
| 1 | Q1 | FDV304P | SOT23 | 9846123 | 0,387€ |
| Sub-totals: | | | | | 0,3870€ |
| 2 Diodes | | | | | |

| Quantity | References | Value | PCB Package | Farnell code | Price per unit |
|----------|------------|------------------|-------------|--------------|----------------|
| 1 | D1 | KA-3022SRC-4.5SF | SOD123_K | 1142617 | 0,4€ |
| 1 | D2 | 1N4448WS | SOD-323 | 1843752 | 0,0883€ |

Sub-totals:

0,4883€

48 Miscellaneous

| Quantity | References | Value | PCB Package | Farnell code | Price per unit |
|----------|---|-----------------------------|---------------------------------|--------------|----------------|
| 25 | 1V8,1V8M,3V3,3V7,3V3M,3V7M,5V,AUDIO_L,AUDIO_R,GND,GND_,J10-J11,MISO,MOSI,RXD,SCK,SD_CS,TFT_CS,TFT_RD,TFT_RS,TFT_WR,TP_CS,TXD,VIBR | PIN | PIN | | |
| 1 | BAT | LIPO BAT | BAT | RS: 144-9405 | 14,22€ |
| 1 | BAT1 | 530480310 | 530480310 | 9732918 | 0,186€ |
| 1 | J1 | DM3ATSFPEJM5 | HRS_DM3ATSFPEJM5 | 2427719 | 1,84€ |
| 1 | J2 | USB Mini B Molex 67503-1230 | MOLEX USB MINI B 67503-1230 | 2113554 | 0,913€ |
| 1 | J6 | CONN-SIL9 | CONN-SIL9-MALE-90 | 2847166 | 0,056€ |
| 1 | J7 | CONN-SIL9 | CONN-SIL9-FEMALE-90 | 2847198 | 0,0427€ |
| 1 | J12 | 6130XX21821_61303421821 | 61303421821 | 3583802 | 1,15€ |
| 1 | L1 | MMZ1608B121CTAH0 | RESC1608X84 | 2800823 | 0,046€ |
| 2 | LS1-LS2 | SPEAKER | CONN-SIL2 | 1502732 | 1,43€ |
| 1 | RV1 | 10k | B103 POT RUEDA | Aliexpress | 3,99€ |
| 2 | SPK_L,SPK_R | 2211S-02G | HDRV2W64P0X254_1X2_508X254X874P | 1593411 | 0,0131€ |
| 1 | SW1 | OS102011MA1QS1 | OS102011MA1QS1 | 2435103 | 0,401€ |
| 8 | SWL_DOWN,SWL_LEFT,SWL_RIGHT,SWL_UP,SW_DOWN,SW_LEFT,SW_RIGTH,SW_UP | B3F-1050 | B3F-1050 | 176433 | 0,498€ |
| 1 | X1 | AS-14.7456-18-EXT-SMD-TR | HC49 | 4165867 | 0,169€ |

Sub-totals:

29,8839€

Totals:

67,4838€

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