

Bill Of Materials for MAINPCB

Design Title MAINPCB
Author
Document Number
Revision
Design Created Montag, 2. Januar 2017
Design Last Modified Montag, 2. Januar 2017
Total Parts In Design 72

0 Modules

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| Sub-totals: | | | | £0,00 |

23 Capacitors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|------------------------|--------------|------------------------------|------------------|
| 8 | C1-C4, C7-C8, C15, C24 | 100nF | 1206 SMD | £0,10 |
| 3 | C5-C6, C9 | 22uF | Low Profile Elko (Panasonic) | £0,30 |
| 2 | C10-C11 | 18pF | MLCC C0G XTAL | £0,30 |
| 4 | C12-C13, C16, C18 | 560pF | WIMA FKP/MKP 5mm 63-100V | £0,60 |
| 1 | C17 | 100pF | WIMA FKP/MKP 5mm 63-100V | £0,50 |
| 4 | C19-C22 | 470nF | MLCC 2.5mm | £0,30 |
| 1 | C23 | 100nF | | £0,10 |
| Sub-totals: | | | | £6,50 |

26 Resistors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|--------------------|--------------|-------------------|------------------|
| 1 | R1 | 100k | Tayda 1/4W Metal | £0,01 |
| 1 | R2 | 33k | Tayda 1/4W Metal | £0,01 |
| 3 | R3-R4, R7 | 10k | Tayda 1/4W Metal | £0,01 |
| 1 | R5 | 15k | Tayda 1/4W Metal | £0,01 |
| 1 | R6 | 31k | Tayda 1/4W Metal | £0,01 |
| 4 | R8-R11 | 1k | Tayda 1/4W Metal | £0,01 |
| 4 | R12, R14, R17, R21 | 30k | Tayda 1/4W Metal | £0,01 |
| 4 | R13, R15-R16, R20 | 470R | Tayda 1/4W Metal | £0,01 |
| 2 | R18-R19 | 1.6k | Tayda 1/4W Metal | £0,01 |
| 4 | R22-R25 | 2.5k | Tayda 1/4W Metal | £0,01 |

| | | | | |
|-----------------------|-------------------|--------------|---|------------------|
| 1 | R26 | 7.5k | optional 1206 for VCA Class A Performance | £0,10 |
| Sub-totals: | | | | £0,35 |
| 9 Integrated Circuits | | | | |
| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
| 1 | U1 | TL072 | | £0,29 |
| 2 | U2, U4 | TL074 | | £0,29 |
| 1 | U3 | 78L05 | | £0,15 |
| 1 | U5 | ATMEGA168P | | £4,00 |
| 1 | U6 | NE5532 | | £0,80 |
| 1 | U7 | V2164 | Thonk, Ebay etc. | £4,00 |
| 2 | U8-U9 | MCP4822 | 12-Bit DAC | £2,00 |
| Sub-totals: | | | | £13,82 |
| 0 Transistors | | | | |
| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
| Sub-totals: | | | | £0,00 |
| 2 Diodes | | | | |
| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
| 2 | D1-D2 | BAT42 | SCHOTTKY DIODE | £0,10 |
| Sub-totals: | | | | £0,20 |
| 12 Miscellaneous | | | | |
| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
| 2 | J1-J2 | CONN-D4 | HEADER MALE x2 | £0,10 |
| 3 | J3-J4, J8 | OUTS | PJ301BM | £0,40 |
| 2 | J5-J6 | CONN-S2 | HEADER MALE x1 | £0,10 |
| 1 | J7 | CONN-D8 | HEADER MALE x2 | £0,10 |
| 2 | L1-L2 | 1mH | 875-28L0138-10R-10 | £0,11 |
| 1 | POWER | CONN-D10 | | £0,10 |
| 1 | X1 | CRYSTAL | 20 Mhz | £0,50 |
| Sub-totals: | | | | £2,52 |

Totals: £23,39

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