

Bill of Materials

Bill of Materials For Project [Metal Detector.PrjPcb] (No PCB Document Selected)

Source Data From: Metal Detector.PrjPcb
Project: Metal Detector.PrjPcb
Variant: None

Creation Date: 30.05.2010 21:10:28
Print Date: 40328 40328,88232

| Footprint | Comment | LibRef | Designator | Description | Quantity |
|----------------|----------------|----------------|--|--|----------|
| CAP508 | 100nF | Cap | C1, C5, C7, C10, C11, C13, C24 | Capacitor | 7 |
| PCAP-5.08-16mm | 10000uF/16V | Cap Pol2 | C2 | Polarized Capacitor (Axial) | 1 |
| PCAP-5.08-8mm | 1000uF/6.3V | Cap Pol2 | C6, C16 | Polarized Capacitor (Axial) | 2 |
| CAP508 | 220pF | Cap | C9 | Capacitor | 1 |
| CAP508 | 15pF | Cap | C12 | Capacitor | 1 |
| PCAP254 | 10uF/6.3V | Cap Pol2 | C14, C18 | Polarized Capacitor (Axial) | 2 |
| PCAP-5.08-10mm | 1000uF/25V | Cap Pol2 | C15 | Polarized Capacitor (Axial) | 1 |
| CAP508 | 10pF | Cap | C17 | Capacitor | 1 |
| PCAP254 | 220uF/6.3V | Cap Pol2 | C19 | Polarized Capacitor (Axial) | 1 |
| CAP508 | 1uF | Cap | C20 | Capacitor | 1 |
| PCAP254 | 2.2uF/16V | Cap Pol2 | C21 | Polarized Capacitor (Axial) | 1 |
| PCAP-5.08-8mm | 220uF/16V | Cap Pol2 | C22 | Polarized Capacitor (Axial) | 1 |
| PCAP254 | 10uF/16V | Cap Pol2 | C23 | Polarized Capacitor (Axial) | 1 |
| CAP508 | 18pF | Cap | C25, C26 | Capacitor | 2 |
| Diode0.4 | BYV28-200 | D Schottky | D1 | Schottky Diode | 1 |
| Diode0.4 | 1N4148 | DIODE | D2, D3, D4, D6 | | 4 |
| Diode0.4 | 1N5819 | D Schottky | D5 | Schottky Diode | 1 |
| Diode0.4 | 5V 1 | D Zener | D7 | Zener Diode | 1 |
| HDR1X10 | BUTTONS | Header 10 | HD1, HD2 | Header, 10-Pin | 2 |
| SIP5 | ICSP | Header 5 | HD3 | Header, 5-Pin | 1 |
| KLEM_508_2P | 12V | Header 2 | KL1 | Header, 2-Pin | 1 |
| KLEM_508_2P | COIL | Header 2 | KL2 | Header, 2-Pin | 1 |
| L-5.08-8mm | 330uH | Inductor Iron | L1 | Magnetic-Core Inductor | 1 |
| SIP16 | 4x20 LCD | | LCD1 | | 1 |
| SIP2 | Speaker | Speaker | LS1 | Loudspeaker | 1 |
| BC5XX | BC556 | 2N3906 | Q1, Q3, Q5 | PNP General Purpose Amplifier | 3 |
| MOS213 | IRF740 | MOSFET-N | Q2 | N-Channel MOSFET | 1 |
| BC5XX | BC547 | NPN | Q4, Q7 | NPN | 2 |
| BC5XX | BC337 | NPN | Q6 | NPN | 1 |
| Axial 0.4 | 10K | Res1 | R1, R2, R9, R14, R15, R20, R21, R22, R23, R24, R25, R26, R27, R29, R36, R39, R40 | Resistor | 17 |
| Axial 0.4 | 1R | Res1 | R3 | Resistor | 1 |
| AXIAL 10 DIK | 1R | Res1 | R4 | Resistor | 1 |
| Axial 0.4 | 2K2 | Res1 | R5, R11, R33 | Resistor | 3 |
| Axial 0.4 | 4K7 | Res1 | R6, R19, R41 | Resistor | 3 |
| Axial 0.4 | 1K | Res1 | R7, R16, R30 | Resistor | 3 |
| Axial 0.4 | 100K | Res1 | R8 | Resistor | 1 |
| Axial 0.4 | 680R | Res1 | R10 | Resistor | 1 |
| Axial 0.4 | 33K | Res1 | R12 | Resistor | 1 |
| Axial 0.4 | 180R | Res1 | R13 | Resistor | 1 |
| Axial 0.4 | 1M | Res1 | R17 | Resistor | 1 |
| Axial 0.4 | 22K | Res1 | R18 | Resistor | 1 |
| Axial 0.4 | 39R | Res1 | R28, R38 | Resistor | 2 |
| Axial 0.4 | 4.7K | Res1 | R31 | Resistor | 1 |
| Axial 0.4 | 47K | Res1 | R32, R37 | Resistor | 2 |
| Axial 0.4 | 560R | Res1 | R34, R35 | Resistor | 2 |
| BUTON | SW-PB | SW-PB | S1, S2, S3, S4, S5, S6, S7, S8 | Switch | 8 |
| TRPOTYATAY | 100K | RPot | TR1 | Potentiometer | 1 |
| TRPOTYATAY | 10K | RPot | TR2 | Potentiometer | 1 |
| 7XREG | 7905 | L7905CP | U1 | Negative Voltage Regulator | 1 |
| DIP8 | MC34063 | MC34063 | U2 | | 1 |
| 7XREG | 7805 | Volt Reg | U3 | Voltage Regulator | 1 |
| DIP8 | NE5534 | Op Amp | U4 | FET Operational Amplifier | 1 |
| DIP40 | PIC16F877A-I/P | PIC16F877A-I/P | U5 | Enhanced FLASH Microcontroller, 8K (x14-Bit words) FLASH, 368 Bytes RAM, 40-Pin PDIP, Standard VDD Range, Industrial Temperature | 1 |
| DIP16 | 74VHC4046N | 74VHC4046N | U6 | CMOS Phase Lock Loop | 1 |
| XTAL-SLIM | 20MHz | XTAL | XT1 | Crystal Oscillator | 1 |
| | | | | | 103 |

| Approved | Notes |
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