






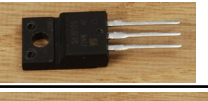




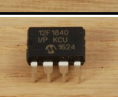






Parts list for metal detector.

| Picture | Component | Value | Manufacturer code | Qty | Description: | Alternative: |
|---|-----------|------------------|----------------------------|-----|---|----------------|
|  | C1 | 47nF 400V | WIMA MKP4J024703F00KSSD | 1 | Good quality Polypropylene capacitor. Important! Original: WIMA MKP4 47nF 630V | |
|  | C2 | 3300uF 6,3V | | 1 | Electrolytic capacitor | |
|  | C3 | 0,1uF | | 1 | Ceramic capacitor | |
|  | D1 | 1N4936 | | 1 | Fast recovery diode 1A 400V | |
|  | D2;D3 | 1N5819 | | 2 | Schottky diode | |
|  | D4 | LED | | 1 | 5mm LED | |
|  | L1 | Search coil 90uH | | 1 | inductance range 80-300uH | |
|  | Q1 | IRL630 | | 1 | N-ch mosfet, logic level gate, 200V, 9A | IRL1630;IRL640 |
|  | R1;R2;R4 | 10 kOhm | | 3 | 0,25 W resistor or 0,125W resistor | |
|  | R3 | 47 Ohm | | 1 | 0,25 W resistor or 0,125W resistor | |
|  | R5;R7 | 470 Ohm | | 2 | 0,25 W resistor or 0,125W resistor | |
|  | SP1 | SPEAKER | | 1 | Piezo or dynamic speaker (without driver circuit). | |
|  | SW1 | Tactile switch | | 1 | Normally open contact push button switch | |
|  | U1 | PIC12F1840 | | 1 | microcontroller with metaldetector firmware | |
|  | | dip8 socket | | 1 | socket for microcontroller | |
|  | P1 | 5pin header | | 1 | pinheader strip | |
|  | | battery holder | | 1 | 4xAAA | |