

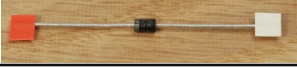


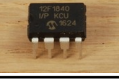
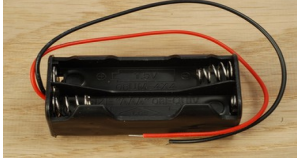


Parts list for metal detector.

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	IRL630	1	N-ch mosfet, logic level gate, 200V, 9A	IRL630;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	PIC12F1572		1	microcontroller with metaldetector firmware	
		dip8 socket		1	socket for microcontroller	
	P1	5pin header		1	pinheader strip	
		battery holder		1	4xAAA	

Pictures of the assembled board (for reference):

