

Sheet1

Parts list for metaldetector.

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 10V		1	Electrolytic capacitor	
C3	0,1uF		1	Ceramic capacitor	
D1	1N4936		1	Fast recovery diode 1A 400V	FR154
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	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	PIC12F1840		1	microcontroller with metaldetector firmware	
	dip8 socket		1	socket for microcontroller	
	5pin header		1	pinheader strip	
	battery holder		1	4xAAA or 4xAA	

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