

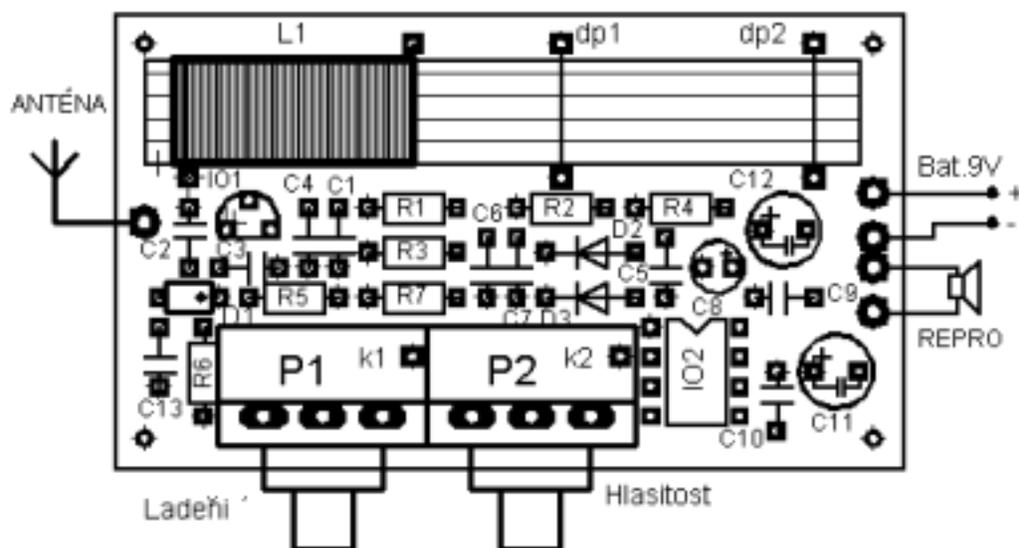
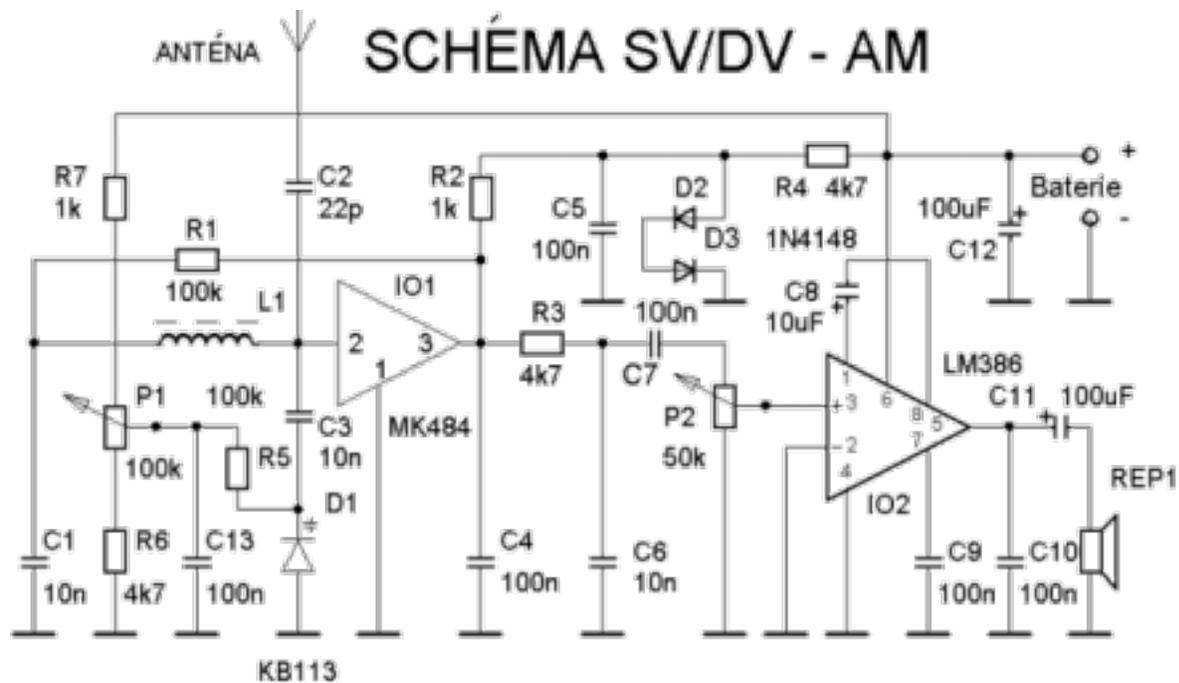
MW/LW Receiver

This pocket receiver is designed for radio reception in medium or long wave. It can be powered by batteries or external power supply.

Technické údaje mini přijímače:	
Napájecí napětí	- 9V (7-12V)
Klidový odběr proudu	- cca. 5mA
Kmitočtový rozsah	- SV nebo DV
Výstupní výkon	- 0,5W

Description: The receiver is equipped with specialized integrated circuit MK484. This integrated circuit is composed of a controlled RF amplifier, high gain and low distortion and a demodulator. The high frequency signals penetrate the input circuit, made with L1, D1. Resonant circuit is further adjusted by changing the voltage from potentiometer P1 through resistor R5 to D1 varactor. The inductor L1 is done on a ferrite rod with a diameter of 10mm and 80mm in length or longer. The ferrite rod drag a body over which it is twisted paper the number of turns, depending on what band you want to receive. To receive stations in the medium wave band, the average coil L1 will have 50 turns of copper wire with a diameter of 0.2 mm and to receive long-wave band stations, the coil L1 will have 200 turns of copper wire 0.1 mm.

The supply voltage of 1.2 V IO1 is obtained from two series diode D2, D3, connected through a resistor R2 to the positive battery terminal to ground. Detected signal is supplied IO2 audio amplifier made with LM386, by a capacitor C7 and a volume control potentiometer P2. Capacitor C8 provides a gain in power audio amplifiers and capacitors C9, C10 are used for stability. A speaker is connected through a capacitor C11 to ground. Speaker impedance should not be less than 8Ω. When using 4Ω speakers, they are connected in series with a resistance of 4.7 Ω.



Seznam součástek mini přijímače AM :

R1, R5	- 100K	C1, 3, 6	- 10nF/ker	D1	- KB113
R2, R7	- 1K	C2	- 22pF/ker	D2, 3	- 1N4148
R3, R6, R4	- 4k7	C4, 5, 7, 9, 10, 13	- 100n/ker	IO1	- MK484
P1-TP160	- 100K/N	C8	- 10µF/16V	IO2	- LM386
P2-TP160	- 50K/G	C11, 12	- 100µF/16V	Feritová tyčka	
Konektor 9V baterie		Pájecí špičky - 5 ks		Drát Cus - f0,2	
Plošný spoj 6,5x4 cm s vyvrtanými otvory - AM5				Drát Cus - f0,1	