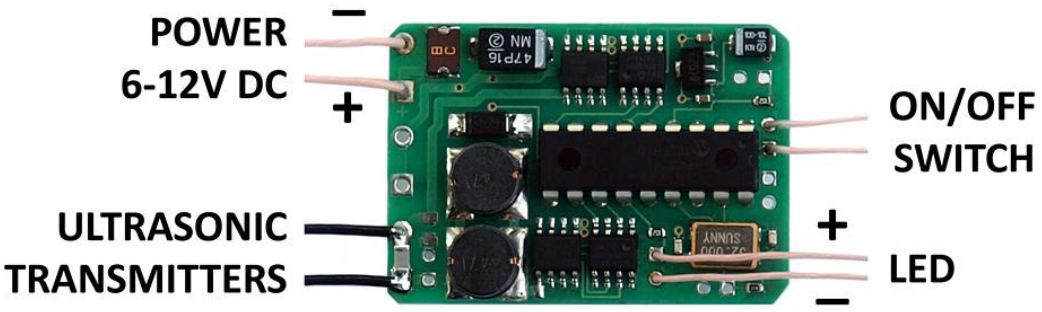
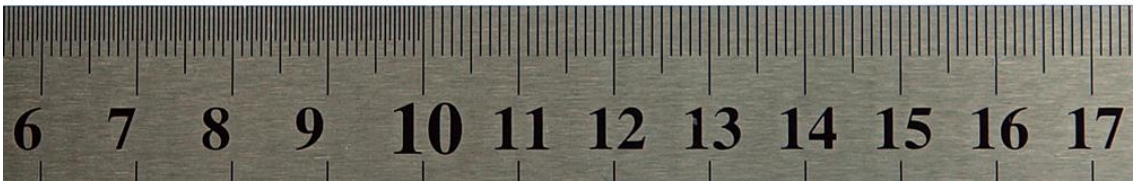
ASU-20-PCB for Self-Production of Noiseless Acoustic Safes Types ASU-20 / ASU-20A





ASU-20-PCB is intended for the manufacture of ultrasonic acoustic safes of the ASU-20 и ASU-20A types.

POWER 6-12V DC. Power connection. Any stabilized DC voltage source from 6 to 12 volts with load rating not less than 300mA. Ultrasonic power depends on voltage with a maximum 2W at 12V. Recommended voltage is 9V. Our tests showed that microphones of all kinds of phones and recorders inside the protected volume 3.3 liters (330x200x50 mm) were totally suppressed at 7.5V.
Polarity must be observed.

ULTRASONIC TRANSMITTERS. Up to 18 ultrasonic 25 kHz transmitters type VS-A1625H12T connected in parallel (or analog with Vp-p limit not less than 100V). Recommended number of transmitters is 15.

ON/OFF SWITCH. The device is on when these pins are shorted. These are logic pins, not power breaker; switch or reed switch (for ASU-20A option) with any current limit can be used.

LED. Practically any LED. Current is limited by 1k resistor from 5V source. The LED flashes in time with the random noise generator.

Specifications

- Supply voltage: from 6 to 12V
- Consumption: no more than 250mA @ 12V
- Total power of ultrasonic emitters (15 pcs): up to 2W
- Type of interference: pseudo-random frequency hopping signal (floating spectrum noise)
- Operating mode: continuous
- Switching on/off: manual / automatic (when using a reed switch with a magnet)
- PCB dimensions: 42.5 x 29.7 x 7 mm
- Weight (without transmitters): 9 g

Example of Acoustic Safe

The photo shows the ASU-20A acoustic safe made from the ASU-20-DIY kit.

Rules for Storage and Operation

The PCB or a product based on it should be stored in a package at an ambient temperature of +5°C to +40°C and a relative humidity not exceeding 70%. Operation is allowed at temperatures from 0°C to +40°C and relative humidity not exceeding 90%.

Acceptance Certificate

Formally, our standard three-year warranty is valid only for finished ASU-20 and ASU-20A products and does not apply to assembly kits (DIY) and printed boards (PCB). However, we are as loyal as possible in matters of technical support, repair and replacement of components. All kits and PCBs are tested for performance and compliance with the parameters.

Acceptance Certificate	**The kit has been manufactured, tested and found working according to specifications.** **Date of manufacture:** _____ **Serial number:** _____ **Manufacturer's stamp and signature of the responsible for acceptance:** _____ STAMP