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# COVERT COMMUNICATORS (462.5625MHz)

## OPERATION PRINCIPLE

COVERT COMMUNICATORS uses 462.5625MHz to communicate. The product has transmitting and receiving functions. Press the intercom button to transmit sound to another intercom via the microphone, and press the LED button to emit white LED light.

Circuits' composition:

Power circuit, microphone circuit, control circuit, 462.5625MHz module, LED circuit.

Power circuit:

SW1, C3, C7, C52, C52, PTC, R4, U7

1. control circuit :

K3, MCU2 , Q1, R3, R58, R59, C6

2. 462.5625MHz module:

IC1, Y1, C5, C32, C33, C28, C8, C11, C10, C31, R2, R36, R32, L2, L13

3. microphone circuit:

MIC1 , R10, R5, C2, C4, C17, C30

4. LED circuit:

SW2, R7, D2

5. Antennas meet the following requirements of FCC Part 95 Section 95.587(b) :

- A. The gain of the antenna does not exceed that of the half-wave dipole antenna.
- B. The antenna is designed so that the electric field of the transmitted wave is vertically polarized when the unit is operating in the normal direction.