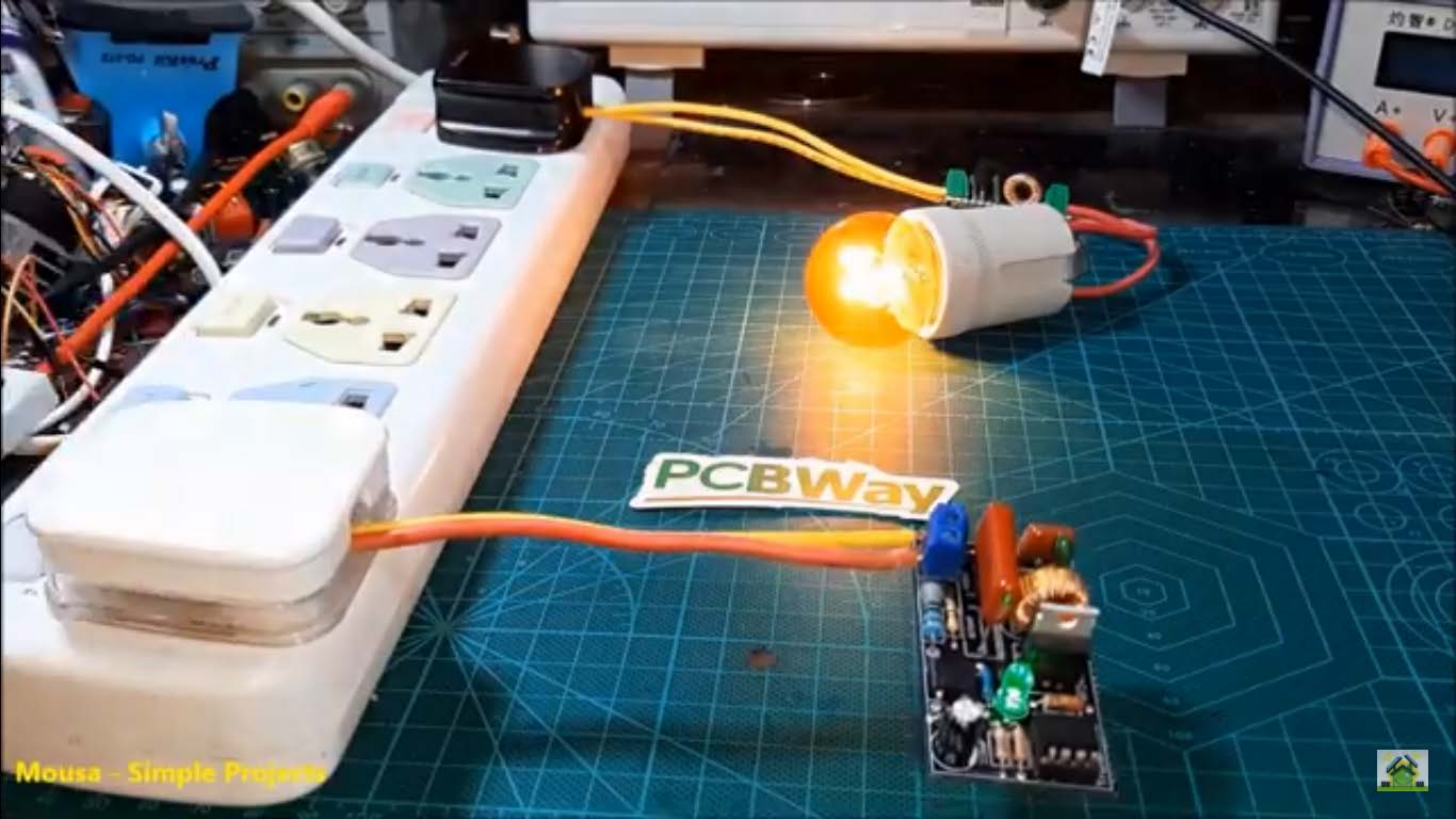


Power Line Communication (PLC)





PCBWay





Power Line Communication (PLC) Applications

1- Power Line Intercom



Power Line Communication (PLC) Applications

2- Internet Access (Broadband over Power Lines (BPL))



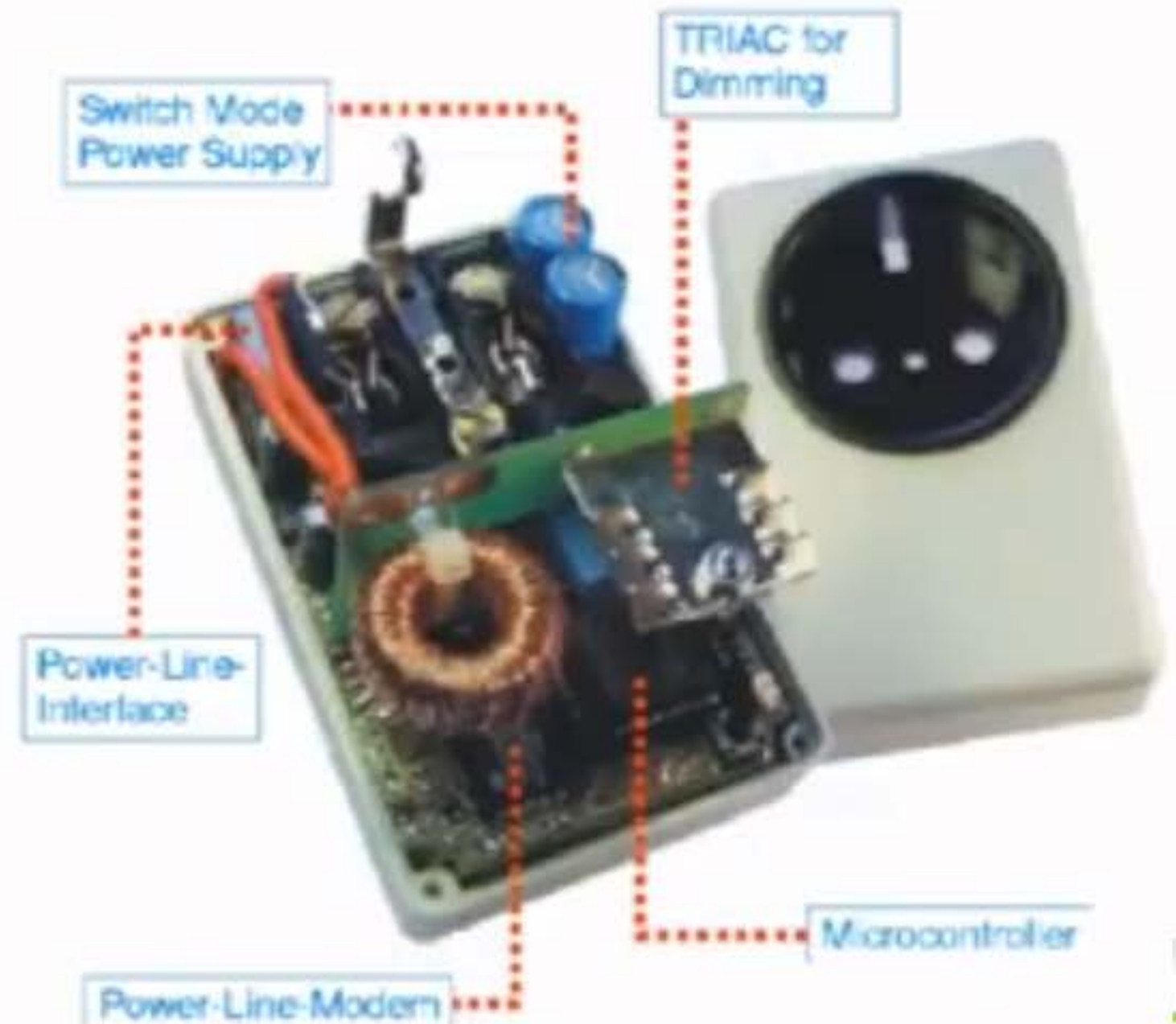
Power Line Communication (PLC) Applications

3- Power Line Telemetry

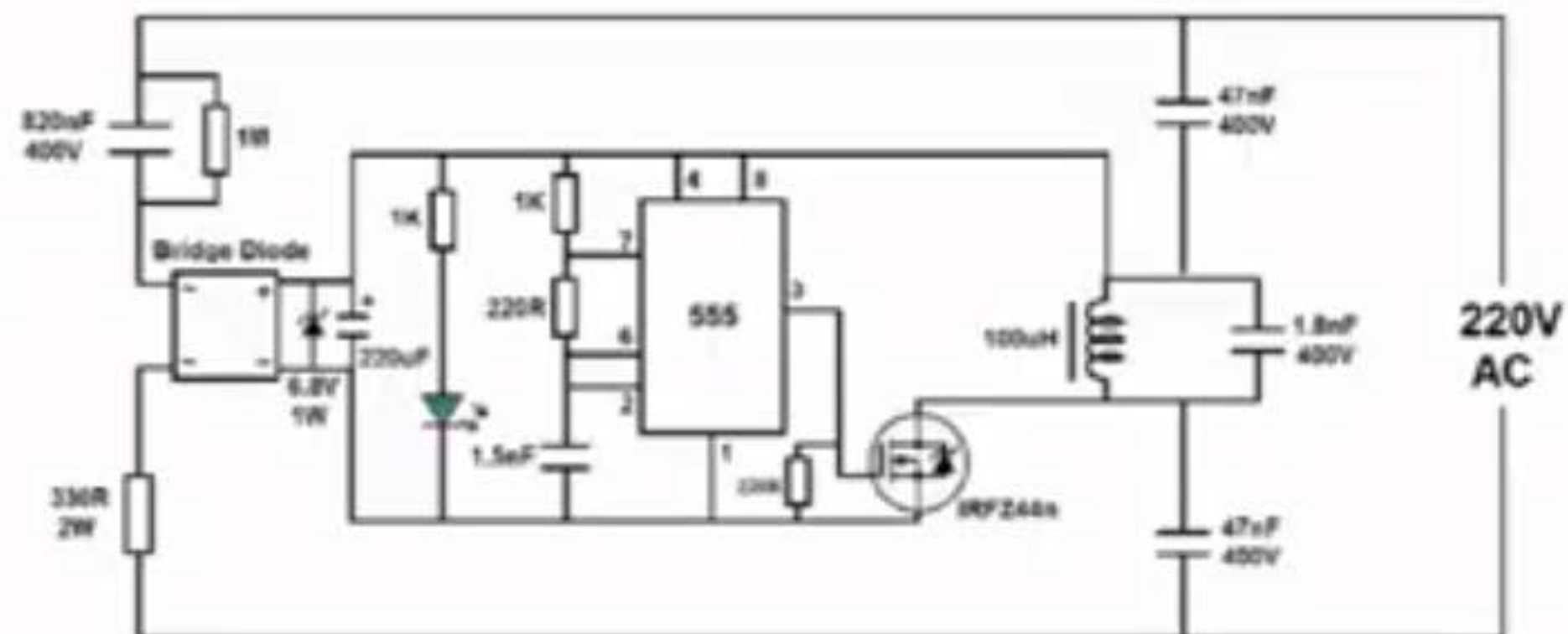


Power Line Communication (PLC) Applications

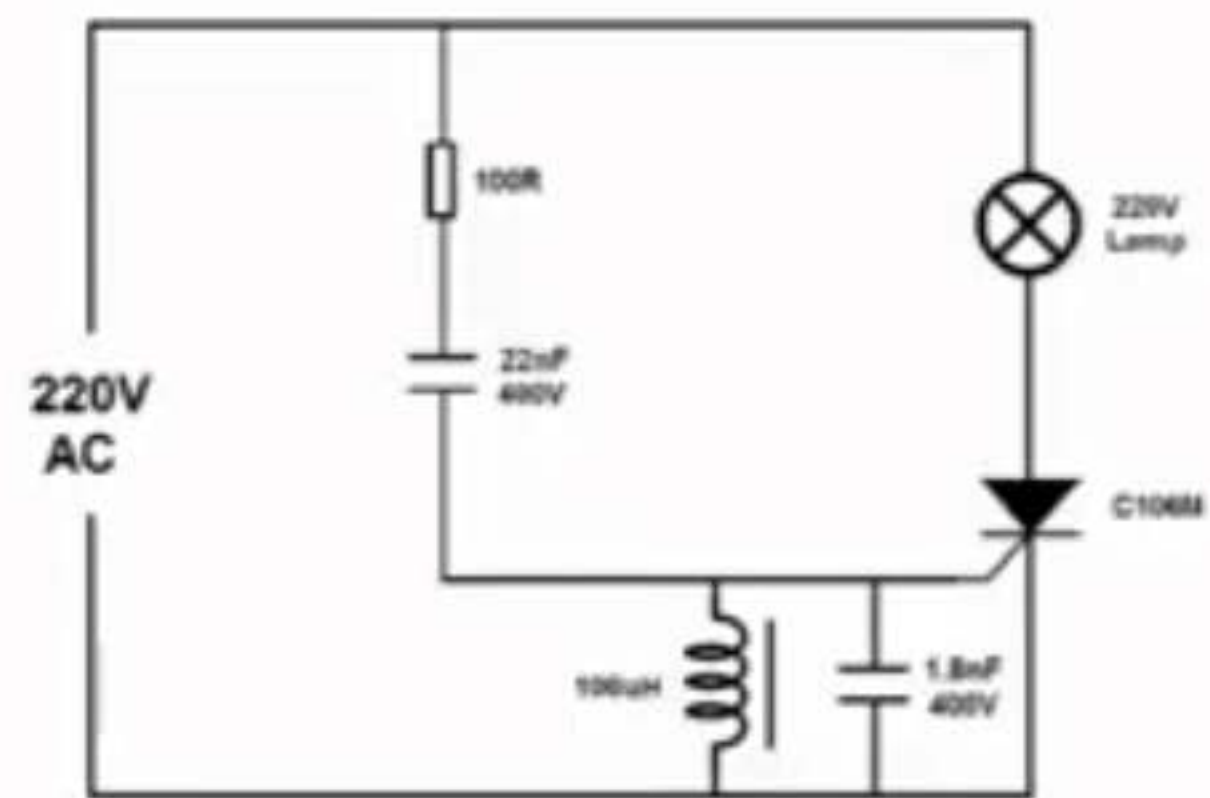
4- Home Automation (Remote Control Over Power Line)



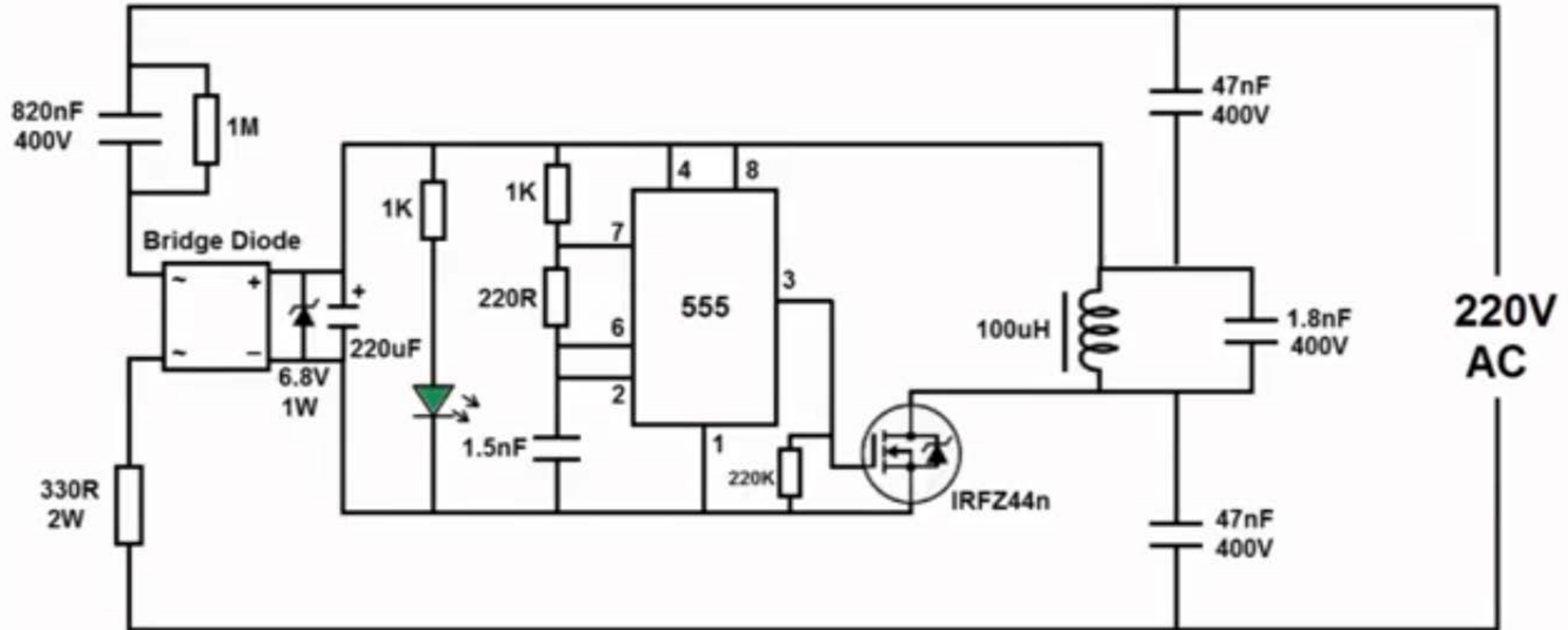
Transmitter



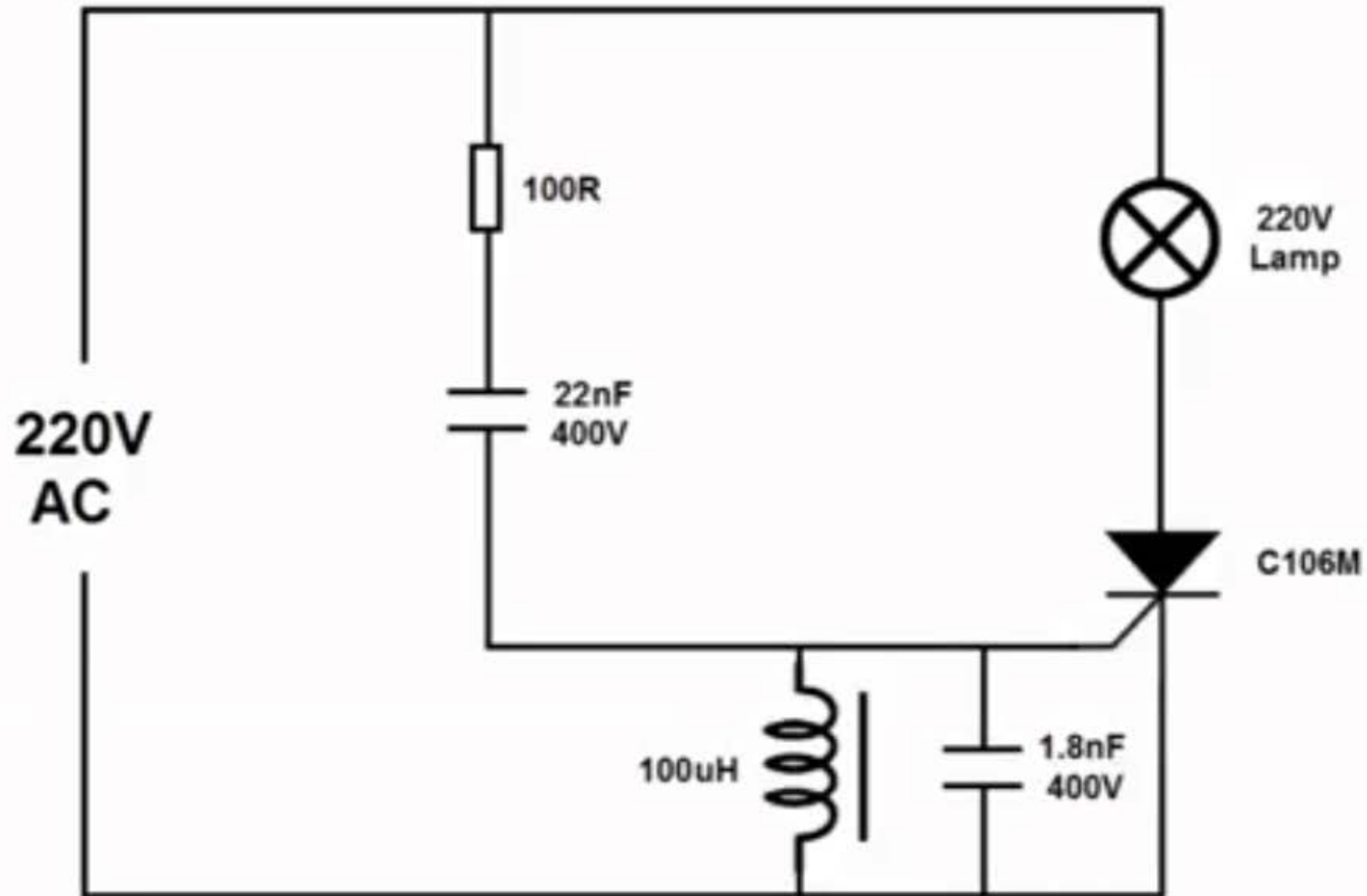
Receiver



Transmitter



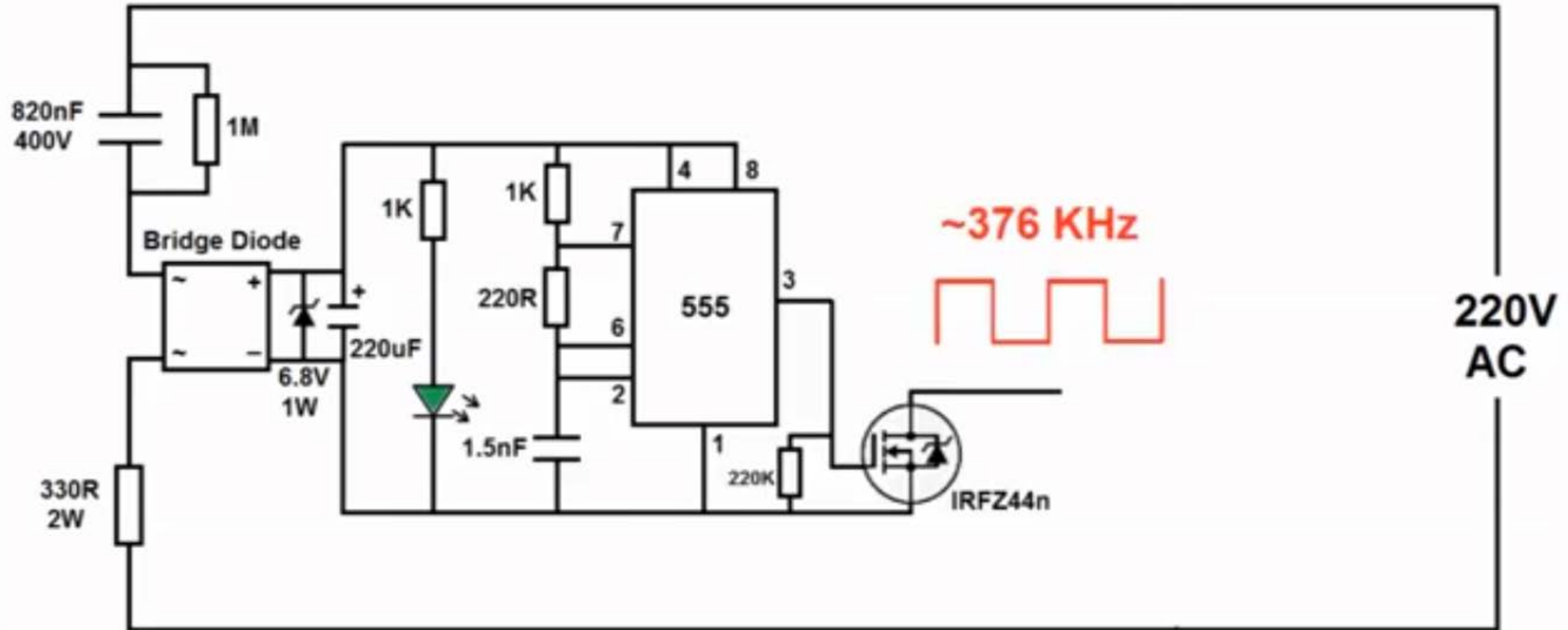
Receiver



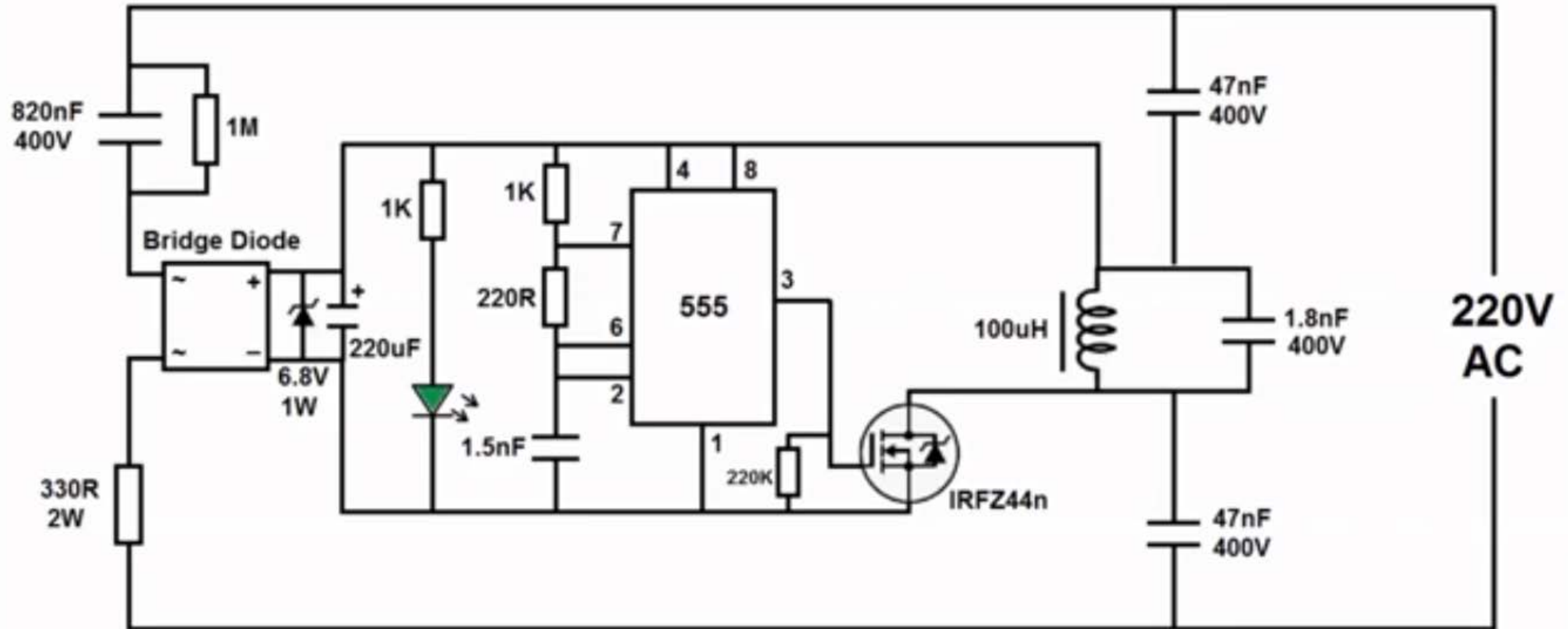
Transmitter



Transmitter



Transmitter

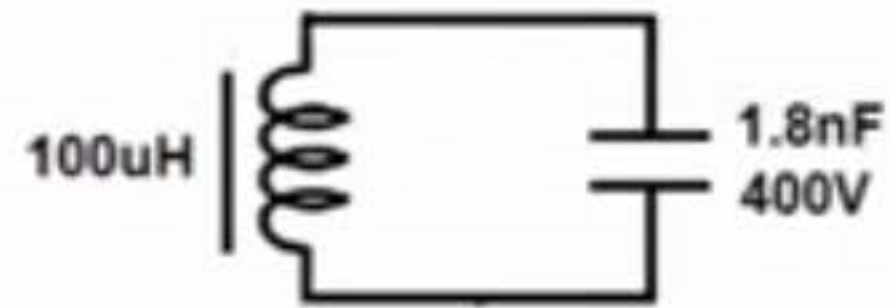


$$f = \frac{1}{2\pi\sqrt{LC}}$$

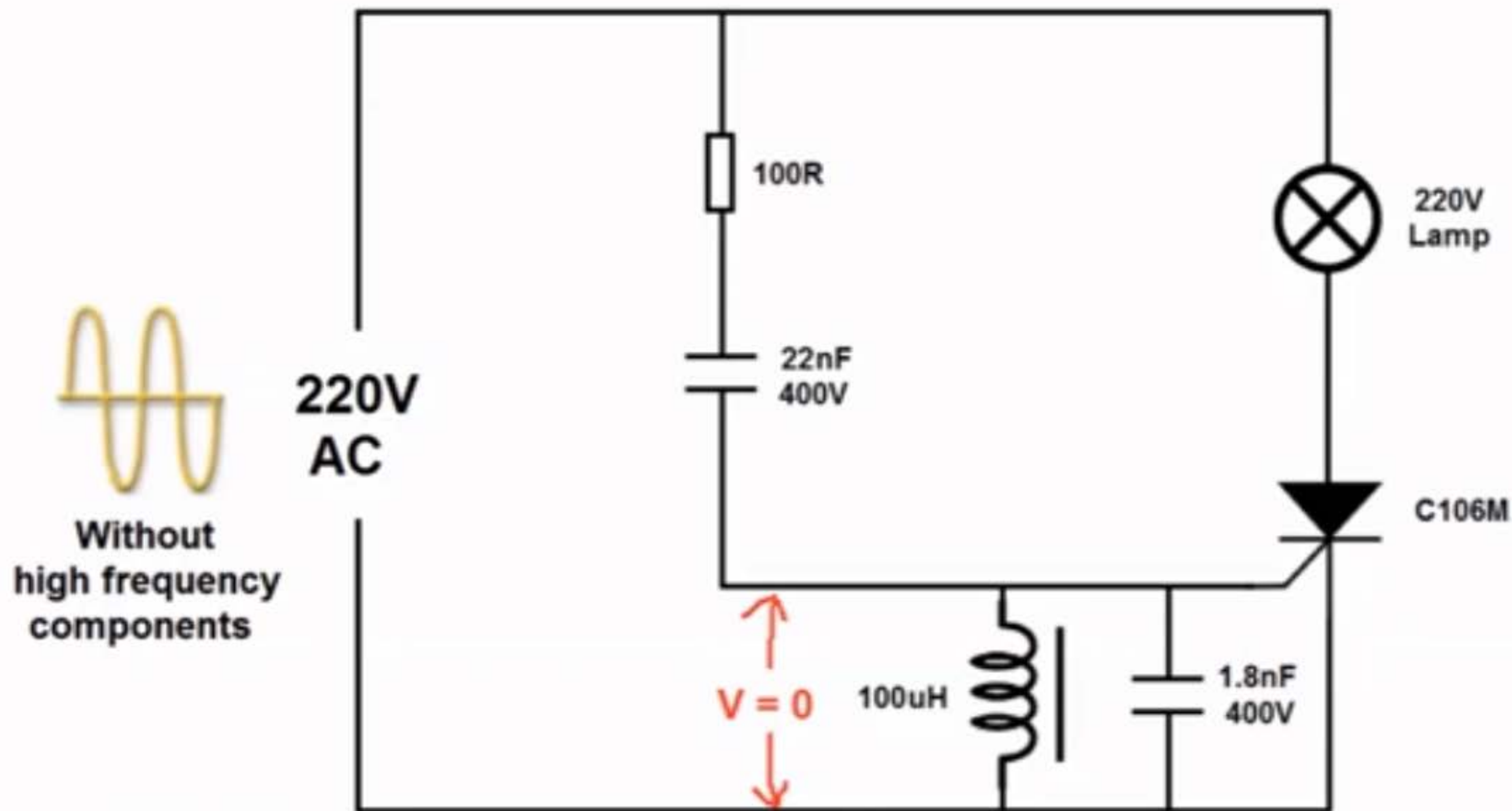
$$f = 376 \text{ KHz}$$

$$L = 100 \text{ uH}$$

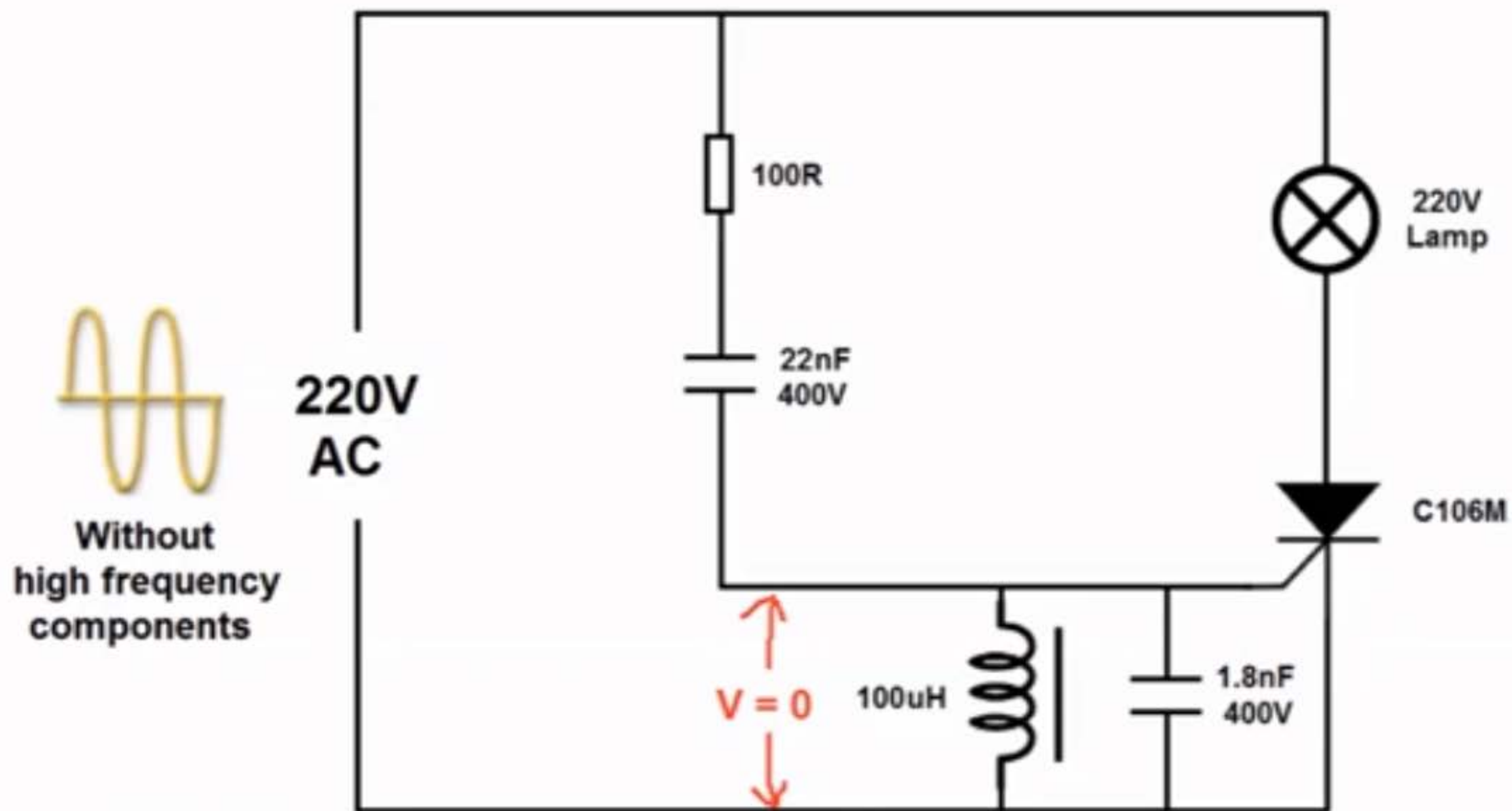
$$C = 1.8 \text{ nF}$$



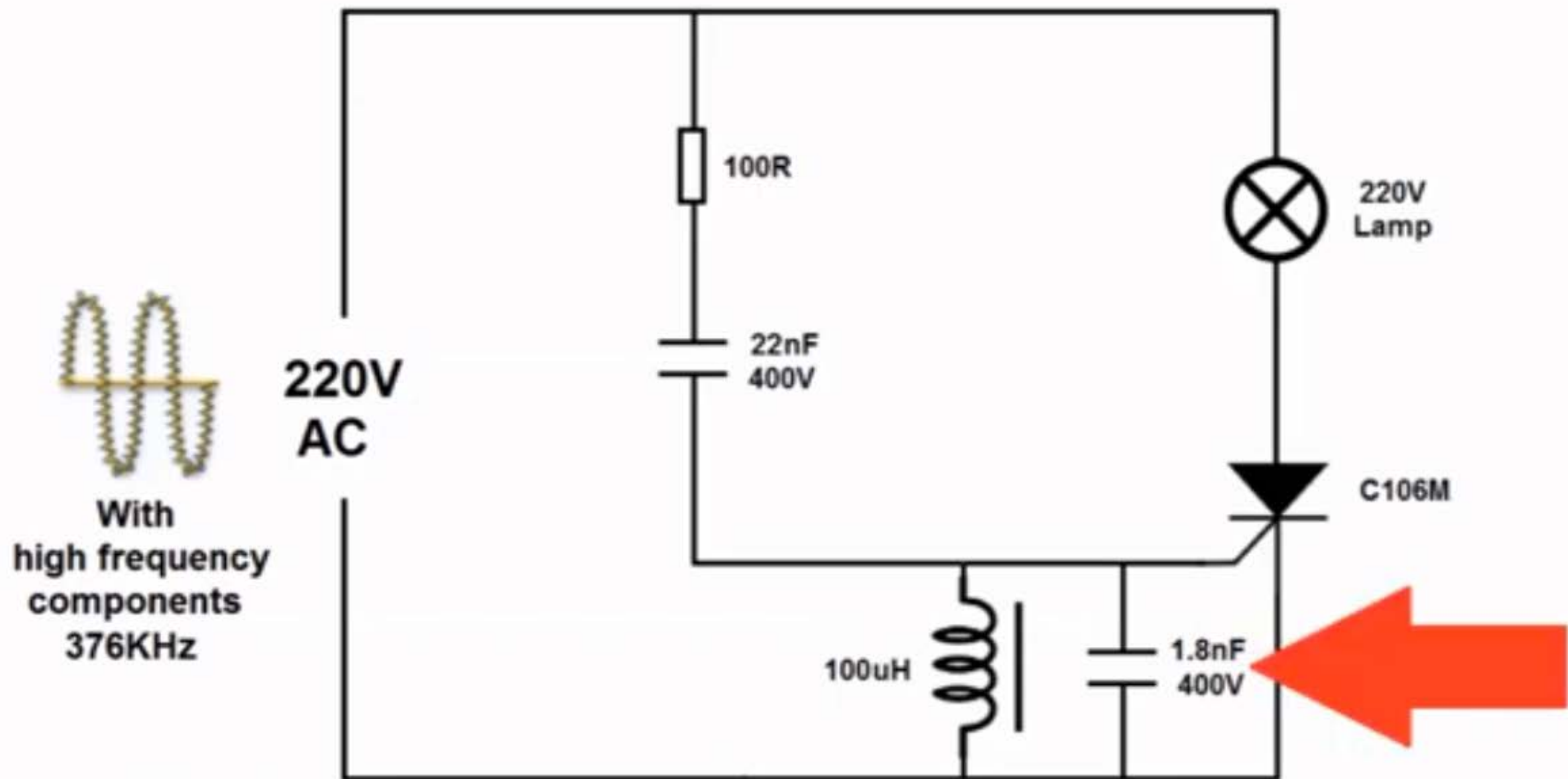
Receiver



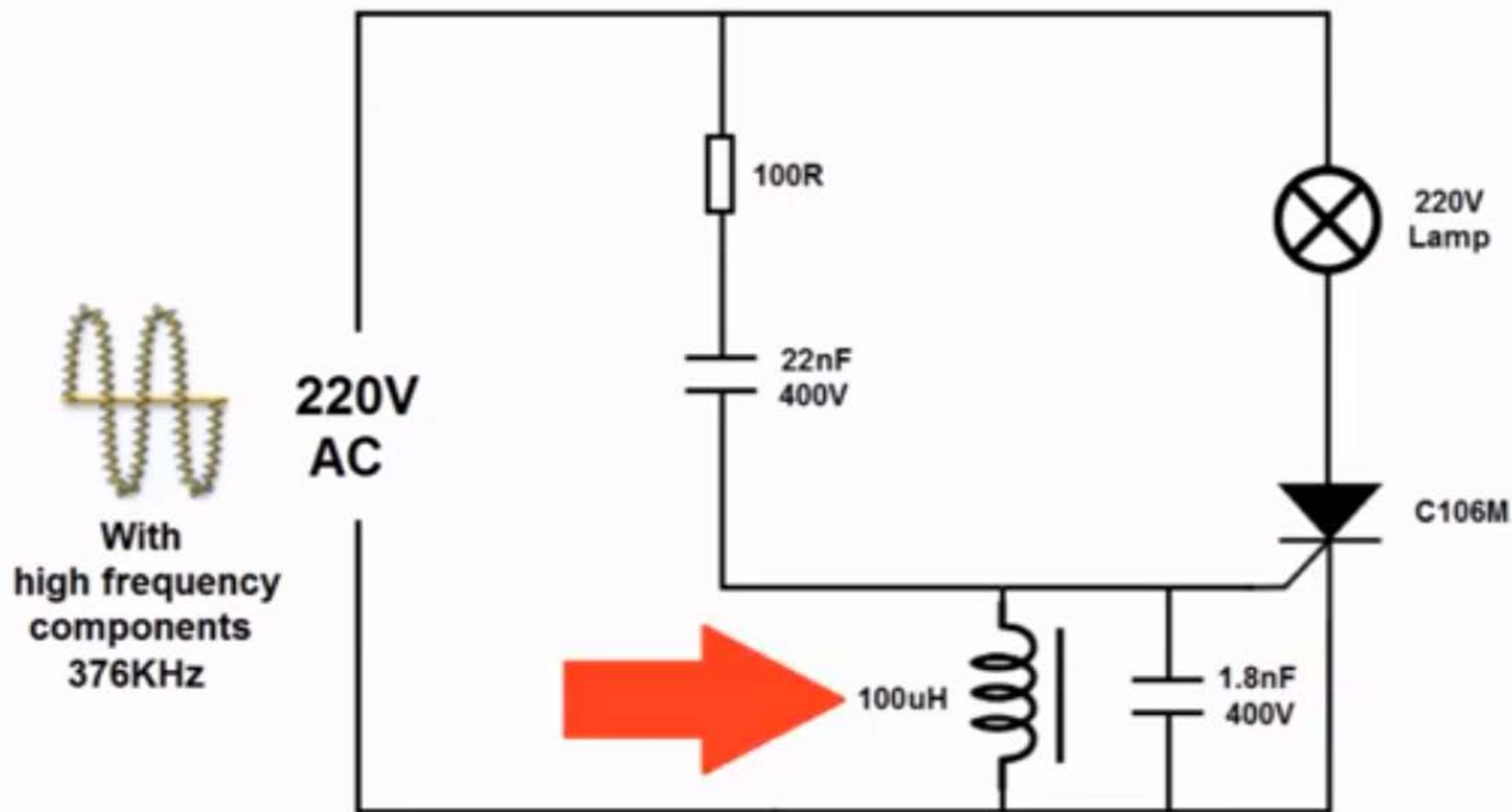
Receiver



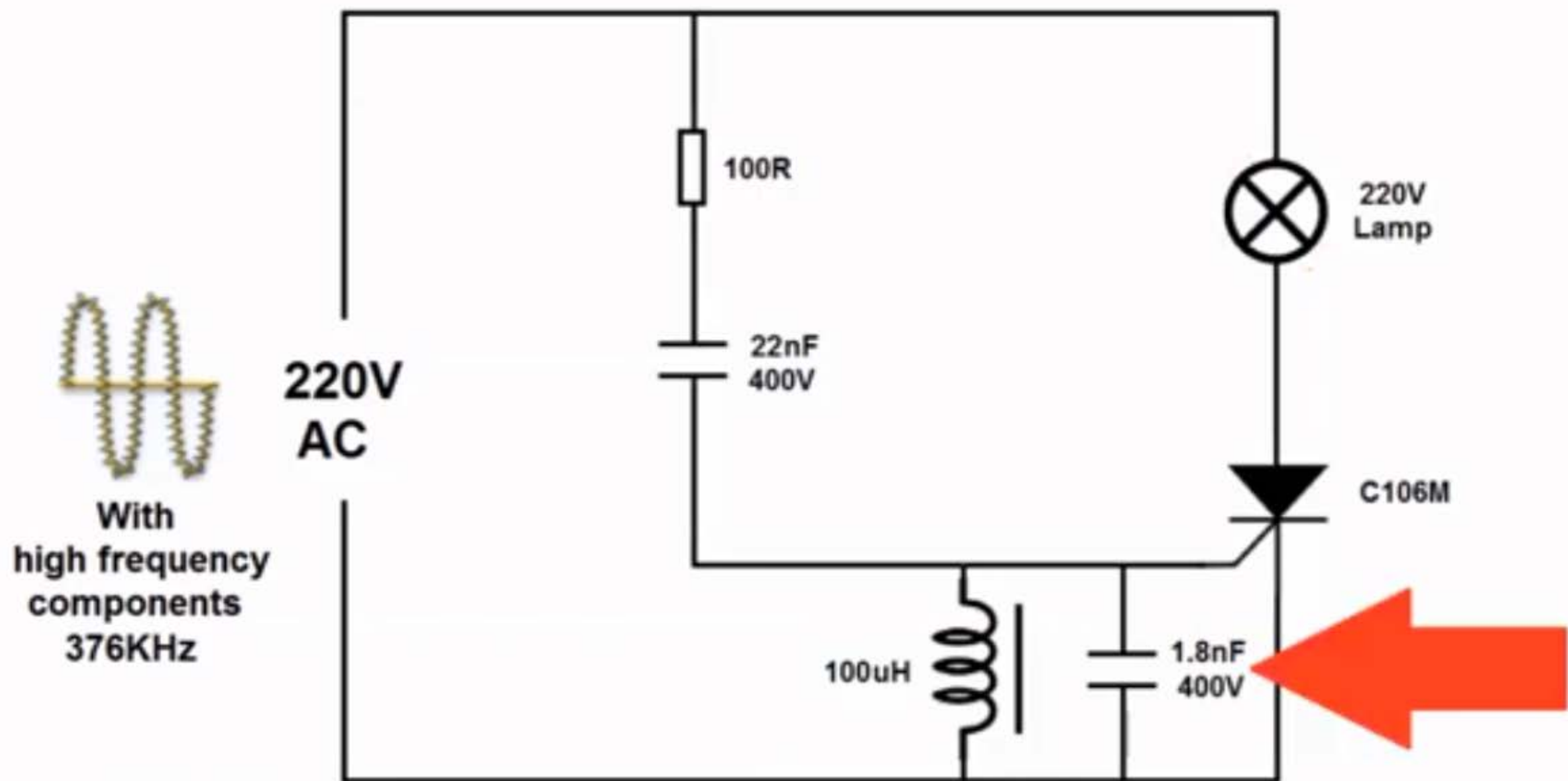
Receiver



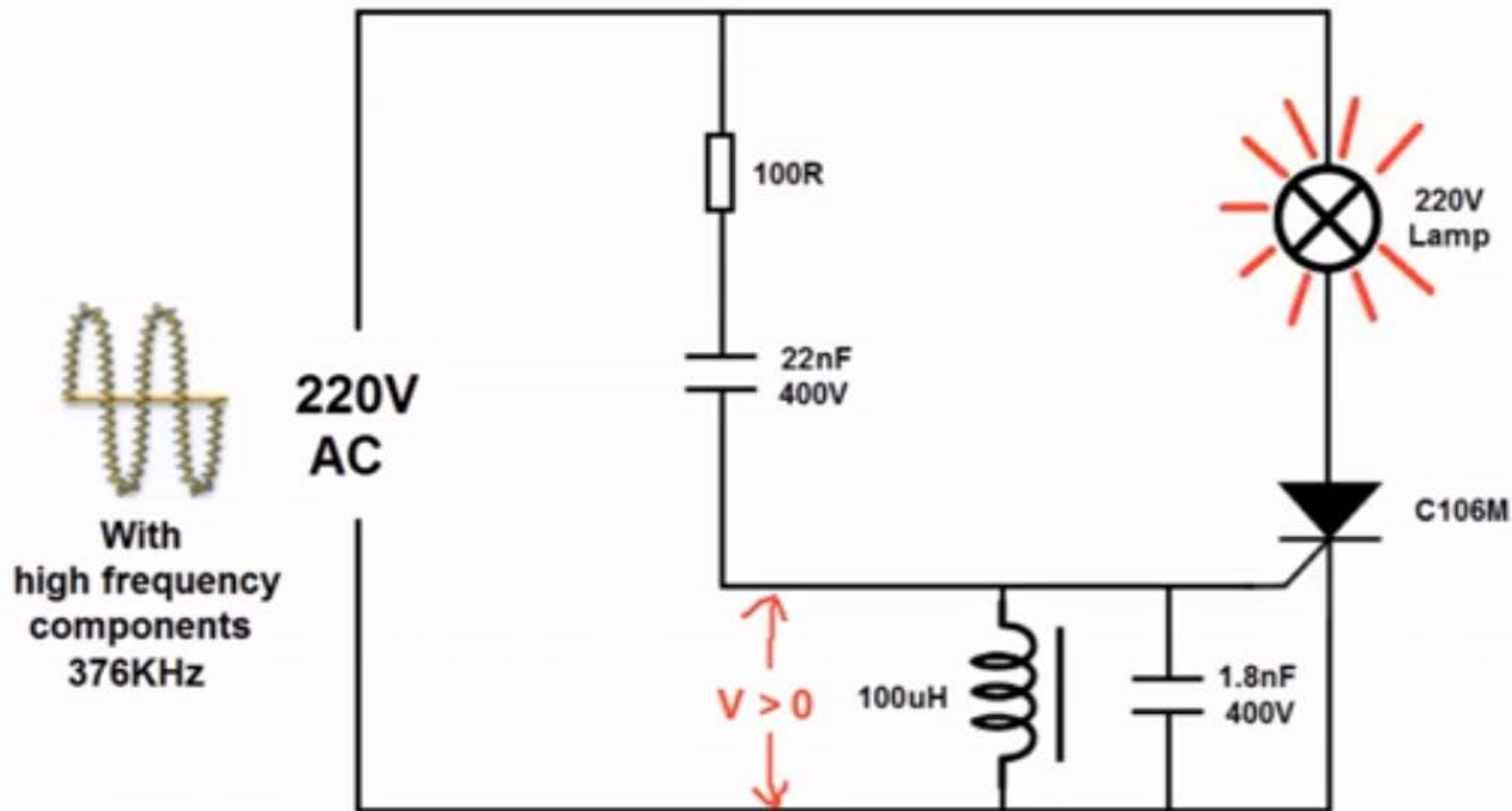
Receiver



Receiver



Receiver

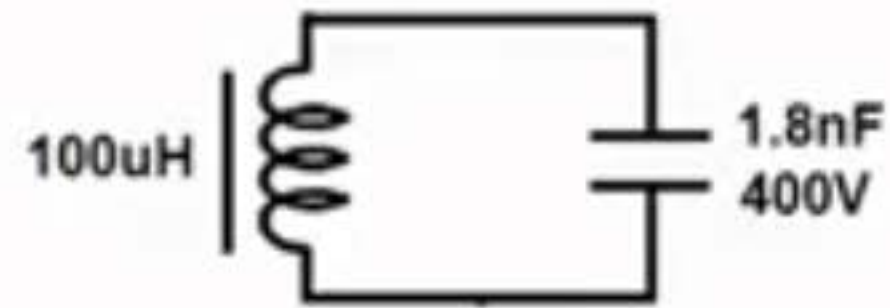


$$f = \frac{1}{2\pi\sqrt{LC}}$$

$$f = 376 \text{ KHz}$$

$$L = 100 \text{ uH}$$

$$C = 1.8 \text{ nF}$$



Receiver

