The PBC has copper on both sides. Keep one side fully covered by the copper and make the circuit described above at the other side. Mount the components at the ground side and make a good connection between the ground (GND) of the circuit side and ground of the fully covered copper side of the PCB.

Shield of the 455 kHz IF cable from transceiver.
Signal core of the 455 kHz IF cable from trans.

Power +13.8V
Power ground

Output 12 kHz to phone conn. inner
Output 12 kHz to phone conn. ground

ground area

L2