

## (3) Oscillation circuit

The oscillation circuit is a Colpitts circuit with grounded collector. The capacitor between the base and emitter and the capacitor between the collector and emitter which form the oscillation circuit are included on the IC.

A buffer has been added for input to the mixer circuit to stabilize the circuit when strong input is present.

## (4) IF amplifier

The IF amplifier circuit consists of a differential amplifier and an emitter-follower. The input/output impedance is set with resistors in the IC to  $330\ \Omega$ , and it can be directly connected to a ceramic filter.

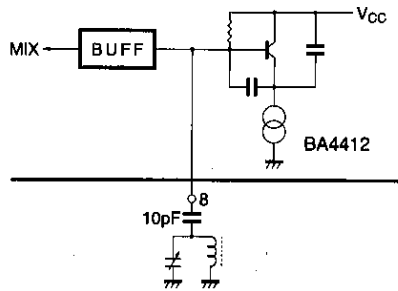


Fig. 5

## ● Coil specifications

- 1)  $T_1$ : FM IFT (10.7MHz) 2153-4095-322

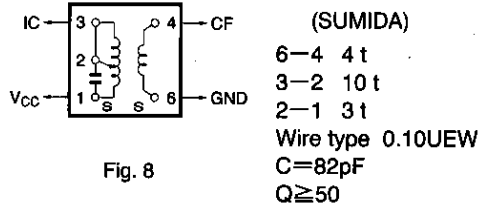


Fig. 8

- 3)  $T_3$ : AM OSC 2157-2239-295 (SUMIDA)

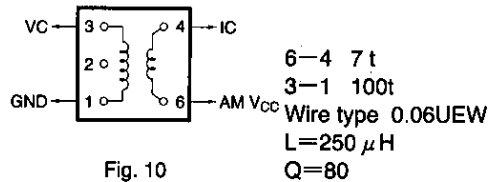


Fig. 10

- 5) BPF: FM BPF (76MHz~108MHz) SNY-2102 (SUMIDA)

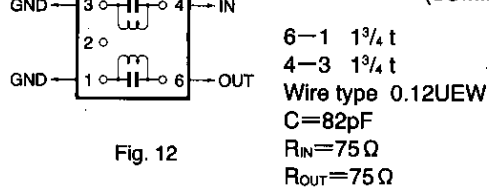


Fig. 12

## (5) Variable capacitor-diode for AFC

A variable capacitor-diode is included on the IC for AFC using the FM detection output S curve. The anode is connected to ground.

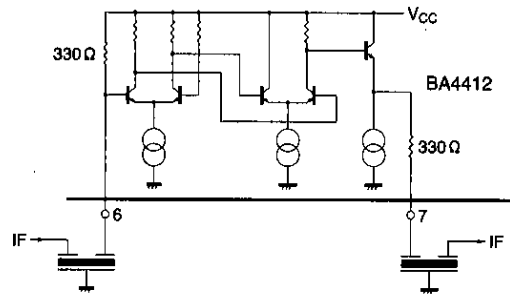


Fig. 6

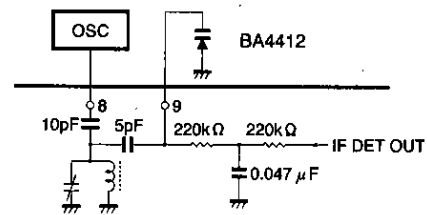


Fig. 7

- 2)  $T_2$ : AM IFT (455kHz) 2150-2173-147

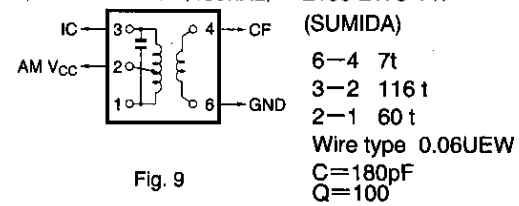


Fig. 9

- 4)  $T_4$ : FM DET (10.7 MHz) 2153-409-090

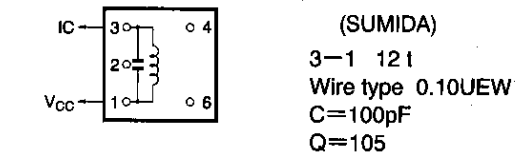


Fig. 11