DESCRIPTION FOR THE MODEL SFT-08041

Parent Unit

Transmitter part

- Tx Match Filter is a filtering and matching circuit, which includes the capacitors C74, C10, C12 and filter of F1.
- RF Amp is achieved by using a transistor Q7. The RF signal is applied to the base of this transistor of Q7 from IC U1. The signal will be sent to the antenna via TX Match Filter F1.
- The Local Oscillator is a combination of circuit components of U1 and L4, L11. The transistors Q1, Q4-6 and Q8 consist of the audio amplifiers that the picked up from the microphone. This audio signal is fed the IC U1 to modulate.
- Phase Lock Loop are formed by the circuit built in the IC U1 and the external components R58, R82, C47, C82, C31 and C32.
- CPU (W541E260) provides a system control on several parts, like PLL control, Tx/Rx switch, battery indication, and channel selection.
- IC U6-B functions as the receiver signal detection. When the baby unit is received the RF signal from parent unit, the pin 7 of IC 6-B will feed a high to CPU that control the unit to entry receiver mode. Otherwise, the unit is in transmitter mode.
- The button SW3 used to control the unit that goes to the transmitter mode when is pressed down. In the normal, the parent unit is in receiver mode.