

Technical Description

RECEIVER UNIT

A. CIRCUIT OPERATION :

1. FM RF RECEIVER MODULE ,OPERATION FREQUENCY CHANNEL 1 49.830MHz, CHANNEL 2 49.860MHz.
2. DC VOLTAGE REGULATOR
3. DUAL MIXINFG; FIRST INTERMEDIATE FREQUENCY 10.7MKHz, SECONDLY INTERMEDIATE FREQUENCY 455KHz.
4. AUDIO LEVEL INDICATION.
5. DIMENSIONAL SOUND STEREO AMPLIFY.

B. COMPONENT DESCRIPTION

| CATEGORY | NUMBER | NAME | DESCRIPTION |
|-----------------------|--|--------------------------------|---|
| TRANSISTOR | 9018H | AMPLIFIER TRANSISTOR | RECEIVE THE RF SIGNAL AMPLIFIER |
| TRANSISTOR | 2SC5343 | AMPLIFIER SWITCH TRANSISTOR | RECEIVE THE AF SIGNAL AMPLIFIER, AUDIO LEVEL INDICATION |
| INTEGRATED CIRCUIT | 7806 | VOLTAGE REGULATOR | REGULATED THE DC OUTPUT VOLTAGE |
| INTEGRATED CIRCUIT | 5018 | INTEGRATED CIRCUIT IC | SECONDLY LOCAL OSCILATOR, SECONDLY IF AMPLIFIER, AF DEMODULATION, TONE SQUELCH. |
| INTEGRATED CIRCUIT | HT82V733 | AUDIO AMPLIFIER | AUDIO POWER AMPLIFIER |
| QUARTZ CRYSTAL | X1 39.130MHz X2 39.160MHz X3 10.245MHz | OSCILLATOR | FIRST LOCAL OSCILATOR: CHANNEL 1 39.130MHz; CHANNEL 2 39.160MHz. SECONDLY LOCAL OSCILATOR: 10.245MHz. |
| FILTER | XTL1 10.7MHz CF1 455KHz | FILTER CIRCUIT | FIRST FILTER INTERMEDIATE FREQUENCY 10.7MHz; SECONDLY FILTER INTERMEDIATE FREQUENCY 455KHz |
| INDUCTANE COIL | T1 T2 T3 | INDUCTANE COIL CIRCUIT | FILTER CHOOSE FREQUENCY CIRCUIT |