

## 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 MIXING; FIRST INTERMEDIATE FREQUENCY 10.7MHz, SECONDLY INTERMEDIATE FREQUENCY 455KHz.
4. AUDIO LEVEL INDICATION.
5. DIMENSIONAL SOUND STEREO AMPLIFY.
6. LED INDICATION OF POWER ON AND BATTERY LOW.

#### 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
TRANSISTOR	MMBT3906 MMBT3904	SWITCH TRANSISTOR	LED INDICATION OF POWER ON AND BATTERY LOW
INTEGRATED CIRCUIT	7805	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