

SPECIFICATIONS / CIRCUIT DESCRIPTIONS

1 GENERAL

1	POWER SUPPLY	RECHARGEABLE BATTERY 7.5V
2	FREQUENCY BANDS	66~88MHz /136~174MHz/330-400MHz /403~470MHz/450~527MHz
3	MODULATION TYPE	F3E
4	FREQUENCY CONTROL	PLL SYNTHESIZER
5	CHANNEL SPACING	25KHz/12.5KHz PROGRAMMABLE
6	NUMBER OF CHANNEL	UP TO 99 CHANNELS
7	TEMPERATURE RANGE	OPERATION: -30 °C~+60 °C STORAGE : -30 °C~+80 °C
8	FREQUENCY STABILITY	±2.5ppm
9	HUMIDITY	OPERATIVE 90%
10	BATTERY LIFE	≥ 8 HOURS
11	DIMENSIONS	125X55X34.5 mm
12	WEIGHT WITH BATTERY	380 gram
13	SHOCK & VIBRATION	MEET MIL_STD_810 C/D/E
14	HUMIDITY,RAIN,SALT FOG,DUST	MEETS IEC529,IP54

2 TRANSMITTER /RECEIVER

2.1 TRANSMITTER

1	RF OUTPUT POWER	5W/1W (VHF) ;4W/1W (UHF)
2	MAXIMUM MODULATION	≤5.0KHz @CHANNEL SPACING=25KHz ≤2.5KHz @CHANNEL SPACING=12.5KHz
3	ADJACENT CHANNEL POWER	≤ -60 dBc (12.5KHz) ≤ -70dBc (25KHz)
4	SPURIOUS EMISSIONS	≤ -36 dBm
5	AUDIO DISTORTION	≤ 3%
6	FM NOISE	> 35dB @12.5KHz / 40dB @25KHz

2.2 RECEIVER

1	CIRCUIT TYPE	DOUBLE CONVERSION
2	INTERMEDIATE FREQUENCY	1 st 45MHz / 2 nd 455KHz
3	SENSITIVITY	≤0.28uV @ 12dB SINAD
4	ADJACENT CHANNEL SELECTIVITY	25KHz ≥ 70 dB / 12.5KHz ≥ 60 dB
5	SPURIOUS RESPONSE REJECTION	≥70 dB
6	INTERMODULATION RESPONSE REJECTION	≥65 dB
7	BLOCKING	≥85 dB
8	AUDIO DISTORTION	≤ 5%
9	AUDIO OUTPUT POWER	≥500mW @ 10% DISTORTION
10	STANDBY CURRENT DRAIN	≤ 70mA
11	STANDBY WITH SAVE	≤ 25mA
12	RATED AUDIO CURRENT DRAIN	≤ 200mA
13	FM NOISE	45 dB @ 25KHz / 40 dB @ 12.5KHz