RHP-530 & RHP-535 Comparison

Model		RHP-535	RHP-530E
			
General			
Frequency Range		TX 118.000MHz to 136.975MHz RX 108.000MHz to 136.975MHz Weather Channels ： 161.650~163.275MHz (10 channels USA only)	TX 118.000MHz to 136.975MHz RX 108.000MHz to 136.975MHz Weather Channels ： 161.650~163.275MHz (10 channels USA only)
Channel Spacing	KHz	25KHz/8.33KHz	25KHz/8.33KHz
D.C. Supply Voltage	V	Alkaline Battery:9.0V, Li-ion Battery:7.4V. USB Type C:5.0V	6 AA Batteries or 7.4V 1800 / 2400 mAh Lithium-Ion Battery
Memory Channels		20	100
Display	mm	45.4 * 43.9 (B&W)	16 * 35.6 (B&W)
Frequency Stability (-20℃ to +60 ℃)	ppm	±1.0	± 2
Type of Emission		6K00A3E(AM), 16K0G3E(FM)	6K80A3E(AM), 16K0G3E(FM)
Anttenna Impedance	ohm	50	50
Speaker Impedance	ohm	8	8
External Microphone Impedance	ohm	150	150
NAV and COM		NAV and COM	NAV and COM
VOR		Yes	Yes
Dimensions	mm	176 * 62 * 43.5	125 * 54 * 30
Weight	Kg	340g	320
Operation Temperature Range	℃	-20 to +55	-30 to +60
Relative Humidty	%	70~90	70~90
Average Battery Duty Life @ 5－5－90 Duty Cycle	hr	Without Power Save ≧22 (With BP-33L 3300mA)	Without Power Save ≧15 (With BP-24L 2400mA)
Bluetooth		Option	Option
EAR/MIC Jack		STD PJ-055 / PJ-68	3.5 / 2.5 mm
Transmitter			
RF Output Power	W	1.5W (CW),5.0W (PEP)Typical,	1.5W (CW),5.0W (PEP)Typical,
Current Drain	mA	≦900	≦900
Modulation Type		Low Level Modulation	Low Level Modulation
Modulation Limiting	%	70~100	70~100
Modulation Depth	%	85 to 95	85 to 95
Conducted Spurious Emissions	dBm	<1GHz ≦-46dBm, >1GHz ≦-40dBm	<1GHz ≦-46dBm, >1GHz ≦-40dBm
Harmonics	dBm	<1GHz ≦-36dBm, >1GHz ≦-30dBm	<1GHz ≦-36dBm, >1GHz ≦-30dBm
Audio Harmonic Distortion	%	≦10 (@85%±3dB Modulation)	≦10 (@85%±3dB Modulation)
Hum & Noise Ratio	dB	≧40 @30% Modulation	≧40 @30% Modulation
Adjacent Channel Power	dB	≧60 @25KHz ≧50 @8.33KHz	≧60 @25KHz ≧50 @8.33KHz
Receiver			
Configuration		Double Conversion Super-heterodyne 1st IF (46.35MHz),2nd IF (450KHz)	Double Conversion Super-heterodyne 1st IF (46.35MHz),2nd IF (450KHz)
Sensitivity (30%Modulation)	dB	AM≦0.55uV @6dB S/N 1KHz ≦0.65uV @12dB Sinad With CCITT FM≦0.5uV(@12dB Sinad)	AM≦0.55uV @6dB S/N 1KHz ≦0.65uV @12dB Sinad With CCITT FM≦0.5uV(@12dB Sinad)
Squelch Sensitivity	dB	AM≦0.25uV FM≦0.3uV	AM≦0.25uV FM≦0.3uV
Adjacent Channel Rejection	dB	≧60dB	≧60dB
Effective Acceptance Bandwidth	dB	@6dB≧±8.5KHz (25KHz) @6dB≧±2.8KHz (8.33KHz)	@6dB≧±8.5KHz (25KHz) @6dB≧±2.8KHz (8.33KHz)
Intermodulation Response Rejection	dB	≧64	≧64
Cross Modulation Rejection	dB	≧70	≧70
Blocking	dB	≧70	≧70
Conducted Spurious Emission	dBm	≦-57 from 9KHz to 1GHz ≦-47 from 1GHz to 4GHz	≦-57 from 9KHz to 1GHz ≦-47 from 1GHz to 4GHz
Hum & Noise Ratio	dB	≧40 @30% Modulation	≧40 @30% Modulation
Spurious Response Rejection	dB	≧70	≧70
Max Audio Output @10% Distortion	W	≧0.8 (8Ω)≦350mA	≧0.5 (8Ω)≦300mA
Audio Distortion	%	≦5	≦5
Standby Current Drain	mA	85 (without power save)	75 (without power save)