

1.Power supply	1.Power supply voltage DC4.5V	15V/2A DC power supply	BAT+&BAT-				
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ii.Receiver Section

Item	Condition	Measurement		Adjustment		Specifications/Remarks	
		Test Instrument	Terminal	Part	Method		
2. Sensitivity	1. RX low Channel	Radio Communication Test Set Signal Generator i. Output: $\leq -119\text{dBm}$ ii. Modulating signal: 1KHz iii. Frequency Dev: $\pm 1.5\text{KHz}$	Antenna port: RF I/P Speaker Jack: Audio O/P with 16Ω dummy load		Check	SINAD: 12dB or higher	
	2. RX center channel						
	3. RX high Channel						
Distortion 4.Audio power	1. RX center channel	Radio Communication Test Set Signal Generator i. Output: -60dBm	Antenna port: RF I/P Speaker Jack: Audio O/P with 16Ω dummy load		Check	Audio Distortion $\leq 5\% @ 0.05\text{W}$	Audio power output $> 0.2\text{W}$

iii. Transmitter Section

Item	Condition	Measurement		Adjustment		Specifications/Remarks	
		Test Instrument	Terminal	Part	Method		
5. TX Frequency Error	1.TX center channel	Radio Communication Test Set @ TX Mode	Test Set is connected to antenna port of DUT			Error $\leq \pm 200\text{Hz}$	
6. TX Power	1.TX power	- Radio Communication Test Set @ TX Mode - multimeter	Test Set is connected to antenna port of DUT		Adjust it to : RF PWR $< 0.5\text{W}$ $\leq 350\text{mA}$	Check RF power level	
7. Max. Frequency Deviation	1.TX center channel	Radio Communication Test Set @ TX Mode FILTER: 0.3-3.4KHz AF O/P:1KHz 100mV	' - Test Set is connected to antenna port of DUT - AF O/P is connected to MIC Jack with $2\text{K}\Omega$ dummy load		Check deviation at $< 2.5\text{KHz}$		
	2. TX low channel						
	3. TX high channel						

8. Modulation Sensitivity	1. TX center channel	Radio Communication Test Set @ TX Mode FILTER: 0.3-3.4KHz AF O/P:1KHz 12mV	' - Test Set is connected to antenna port of DUT - AF O/P is connected to MIC Jack with 2K Ω dummy load		Check deviation: 1.2KHz-1.8KHz	Check
9. Modulation Distortion					$\leq 5\%$	
10. CTCSS Frequency Deviation	1. TX center channel	Radio Communication Test Set @ TX Mode FILTER LPF: 300Hz	Test Set is connected to antenna port of DUT		Adjust deviation to 0.3KHz \pm 0.2KHz	
11. CDCSS Frequency Deviation	2. TX center channel	Radio Communication Test Set @ TX Mode FILTER LPF: 300Hz	Test Set is connected to antenna port of DUT		Adjust deviation to 0.3KHz \pm 0.2KHz	

Tune-up Power Range

Description	Tune-up Power (dBm)	Tune-up Power Range (dBm)
FRS	19.60 \pm 0.7	18.90 ~ 20.30
GMRS	19.70 \pm 0.6	19.10 ~ 20.30