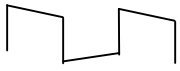
PCB Section

Item	Condition	Measurement		Adjustment		Specifications /Remarks
		Test equipment	Terminal	Parts	Method	
1. Setting	1) Power supply voltage DC Power supply terminal : 13.8V					
2. VCO lock voltage	1) CH: TX high	Digital voltmeter	TC2	CV201	4 V	±0.2V
	2) CH: RX high			CV200	4 V	±0.2V
	3) CH: TX low				Check	More than 0.6V
	4) CH: RX low					

Transmitter section

Item	Condition	Measurement		Adjustment		Specifications /Remarks
		Test equipment	Terminal	Parts	Method	
1. Frequency	1) CH: TX center 2) Transmit	Frequency counter	ANT	Encoder knob	Adjust to the frequency	Within ±200Hz
2. Maximum power alignment	1) CH : TX high 2) Adjustment HEX value : FF 3) Transmit	Power meter		VR200	60W	
3. High power	1) CH : TX low CH : TX low' CH : TX center CH : TX high' CH : TX high 2) Transmit			Encoder knob	59W	±1.0W
4. Mid power	1) CH : TX low CH : TX low' CH : TX center CH : TX high' CH : TX high 2) Transmit				25W	±2W
5. Low power	1) CH : TX low CH : TX low' CH : TX center CH : TX high' CH : TX high 2) Transmit				10W	±1W
6. DCS balance	1)CH : TX low (Wide) CH : TX center (Wide/Narrow) CH : TX high (Wide) 2) Transmit	Modulation analyzer or Linear detector (LPF : 3kHz) Oscilloscope			Adjust the waveform as below 	
7.Max deviation	1) CH : TX low (Wide) CH : TX center (Wide/Narrow) CH : TX high (Wide) 2) AG : 1kHz/50mV 3) Transmit	Modulation analyzer or linear detector (LPF15kHz) Oscilloscope AG AF. V. M	ANT MIC		±4.75kHz (Wide) ±2.3kHz (Narrow) According to the large +, –	±200Hz ±100Hz
8. MIC sensitivity	1) CH : TX center (Wide/Narrow) 2) AG : 1kHz/4mV 3) Transmit				Check	±2kHz±0.2kHz: Wide ±1kHz±0.1kHz: Narrow

Transmitter section

Item	Condition	Measurement		Adjustment		Specifications /Remarks
		Test equipment	Terminal	Parts	Method	
9. 2-Tone deviation	1) CH : TX center (Wide/Narrow) 2) LPF:15kHz 3) HPF:OFF 4) Transmit	Modulation analyzer or linear detector (LPF15kHz) Oscilloscope AG AF. V. M	ANT MIC	Encoder Knob	±3kHz (Wide) ±1.5kHz (Narrow)	±150Hz ±100Hz
10. 5-Tone deviation	1) CH : TX center (Wide/Narrow) 2) LPF:15kHz 3) HPF:OFF 4) Transmit				±3kHz (Wide) ±1.5kHz (Narrow)	±150Hz ±100Hz
11. CTCSS deviation	1) CH : TX low (Wide) CH : TX center (Wide/Narrow) CH : TX high (Wide) 2) Transmit	Modulation analyzer or Linear detector (LPF : 3kHz) Oscilloscope			±0.7kHz (Wide) ±0.35kHz (Narrow)	±200Hz ±100Hz
10. DCS deviation	1) CH : TX low (Wide) CH : TX center (Wide/Narrow) CH : TX high (Wide) 2) Transmit				±0.7kHz (Wide) ±0.35kHz (Narrow)	±150Hz ±100Hz
11. DTMF deviation	1) CH : TX center (Wide/Narrow) 2) Transmit				±3.0 kHz (Wide) ±1.5kHz (Narrow)	±100Hz

Receiver Section

Item	Condition	Measurement		Adjustment		Specifications /Remarks
		Test equipment	Terminal	Parts	Method	
1. Sensitivity	1) CH : RX low (Wide/Narrow) CH : RX center (Wide/Narrow) CH : RX high (Wide/Narrow) 2) SSG output: : –121dBm (0.2μV) (Wide) : –119dBm (0.25μV) (Narrow) Mod : 1kHz Dev : ±3.0kHz (Wide) Dev : ±1.5kHz (Narrow)	SSG Oscilloscope AF V.M Distortion meter	ANT EXT. SP		Check	SINAD: 12dB or higher
2. Squelch 20	1) CH : TX low (Wide) CH : TX center (Wide/Narrow) CH : TX high (Wide) 2) SSG output: : –113dBm (0.501μV) (Wide) : –110dBm (0.707μV) (Narrow) Mod : 1kHz Dev : ±3.0kHz (Wide) Dev : ±1.5kHz (Narrow)			Encoder knob	Adjust to open the squelch	
3. Squelch 1	1) CH : TX low (Wide) CH : TX center (Wide/Narrow) CH : TX high (Wide) 2) SSG output: : –123dBm (0.158μV) (Wide) : –122dBm (0.178μV) (Narrow) Mod : 1kHz Dev : ±3.0kHz (Wide) Dev : ±1.5kHz (Narrow)					