

Common Section

Item	Condition	Measurement		Method	Specifications /Remarks
		Test equipment	Terminal		
1. Setting	1) BATT terminal voltage: 7.4V 2) SSG standard modulation				

Transmitter section

Item	Condition	Measurement		Method	Specifications /Remarks
		Test equipment	Terminal		
1. Transmit frequency	TEST CH: center PTT: ON	Frequency counter	ANT	1. Connect the antenna connector of EUT with the Frequency counter. 2. Open the Tuner software, go to frequency adjust item, 3. Observe the frequency displayed on Frequency counter, and adjust the vernier until the frequency offset is less than or equals to 100 Hz. 4. Click the “Write” button to save your settings.	Within $\pm 100\text{Hz}$
2. High power Adjust	TEST CH: low, center, high Battery terminal: 7.4V PTT: ON	Power meter Ammeter	ANT	1. Connect the antenna connector of EUT with the Power meter and content a ammeter.	4.0W $\pm 0.5\text{W}$ 1.45 A or less
3. Low power Adjust	CH: low, center, high Battery terminal: 7.4V PTT: ON			2. Open the Tuner software, go to High/Low TX power adjust items, 3. Observe the frequency displayed on Frequency counter, and adjust the vernier until the output power is 4.0W $\pm 0.5\text{W}$ 1.45 A or less(high) 1.0W $\pm 0.3\text{W}$ 0.8 A or less(low) 4. Click the “Write” button to save your settings.	1.0W $\pm 0.3\text{W}$ 0.8 A or less
4. MAX DEV Adjust	TEST CH: Center PTT: ON	Power meter Deviation meter Oscilloscope AG AF VTVM	ANT SP/MIC connector	1. Connect EUT to test equipment . 2. Open the Tuner software, go to Deviation item. 4. Observe the frequency deviation , and adjust the vernier until it is 2.1k $\pm$ 100Hz. 6. Click the “Wirte” button to save your settings.	2.1 kHz $\pm 100\text{Hz}$

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
C100		SMT CAPACITOR	0402	1	102±10% 50V
C101		SMT CAPACITOR	0402	1	15P±5% 50V
C102		SMT CAPACITOR	0402	1	103±10% 50V
C103		SMT CAPACITOR	0402	1	NO USE
C104		SMT CAPACITOR	0603	1	105±10% 50V
C105		SMT CAPACITOR	0402	1	NO USE
C106		SMT CAPACITOR	0402	1	104±10% 50V
C107-C109		SMT CAPACITOR	0402	3	NO USE
C110		SMT CAPACITOR	0402	1	NO USE
C111		SMT CAPACITOR	0402	1	NO USE
C112		SMT CAPACITOR	0402	1	NO USE
C200		SMT CAPACITOR	0402	1	100P±5% 50V
C201-C202		SMT CAPACITOR	0402	2	103±10% 50V
C203-C204		SMT CAPACITOR	0402	2	470P±10% 50V
C205		SMT CAPACITOR	0402	1	102±10% 50V
C206		SMT CAPACITOR	0402	1	10P±5% 50V
C207-C208		SMT CAPACITOR	0402	2	103±10% 50V
C209		SMT CAPACITOR	0603	1	NO USE
C210		SMT CAPACITOR	0402	1	470P±10% 50V
C211		SMT CAPACITOR	0402	1	102±10% 50V
C212		SMT CAPACITOR	0402	1	103±10% 50V
C213		SMT CAPACITOR	0402	1	102±10% 50V
C214-C215		SMT CAPACITOR	0402	2	103±10% 50V
C216		SMT CAPACITOR	0402	1	104±10% 50V
C217		SMT CAPACITOR	0603	1	103±10% 50V
C218		SMT CAPACITOR	0603	1	105±10% 50V
C219		SMT CAPACITOR	0402	1	103±10% 50V
C220-C222		SMT CAPACITOR	0402	3	104±10% 50V

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
C223		SMT CAPACITOR	0402	1	103±10% 50V
C224		SMT CAPACITOR	0402	1	220P±5% 50V
C225		SMT CAPACITOR	0402	1	103±10% 50V
C226		SMT CAPACITOR	0402	1	104±10% 50V
C227		SMT CAPACITOR	0402	1	102±10% 50V
C228-C229		SMT CAPACITOR	0402	2	103±10% 50V
C230-C231		SMT CAPACITOR	0402	2	100P±5% 50V
C232		SMT CAPACITOR	0402	1	104±10% 50V
C233		SMT CAPACITOR	0402	1	NO USE
C234		SMT CAPACITOR	0402	1	103±10% 50V
C235		SMT CAPACITOR	0402	1	104±10% 50V
C236		SMT CAPACITOR	0402	1	103±10% 50V
C237		SMT CAPACITOR	0402	1	473±10% 50V
C238		SMT CAPACITOR	0402	1	103±10% 50V
C239		SMT CAPACITOR	0402	1	102±10% 50V
C240		SMT CAPACITOR	0402	1	103±10% 50V
C241		SMT CAPACITOR	0402	1	102±10% 50V
C242		SMT CAPACITOR	0402	1	104±10% 50V
C243		SMT CAPACITOR	0603	1	105±10% 50V
C244		SMT CAPACITOR	0402	1	104±10% 50V
C245		SMT CAPACITOR	0402	1	103±10% 50V
C246		SMT CAPACITOR	0603	1	105±10% 50V
C247		SMT CAPACITOR	0402	1	NO USE
C248-C249		SMT CAPACITOR	0805	2	225±10% 50V
C250		SMT CAPACITOR	0402	1	102±10% 50V
C251		SMT CAPACITOR	0402	1	100P±5% 50V
C252		SMT CAPACITOR	0805	1	225±10% 50V
C253		SMT CAPACITOR	0603	1	100P±5% 50V

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
C254		SMT CAPACITOR	0402	1	103±10% 50V
C255		SMT CAPACITOR	0402	1	102±10% 50V
C256		SMT CAPACITOR	0402	1	103±10% 50V
C257-C258		SMT CAPACITOR	0402	2	273±10% 50V
C259		SMT CAPACITOR	0402	1	103±10% 50V
C260		SMT CAPACITOR	0805	1	225±10% 50V
C261-C262		SMT CAPACITOR	0402	2	103±10% 50V
C263-C264		SMT CAPACITOR	0402	2	103±10% 50V
C265		SMT CAPACITOR	0603	1	103±10% 50V
C266		SMT CAPACITOR	0402	1	103±10% 50V
C267C-C269		SMT CAPACITOR	0402	2	102±10% 50V
C270		SMT CAPACITOR	0402	1	1.5P±0.1P 50V
C271		SMT CAPACITOR	0402	1	104±10% 50V
C272		SMT CAPACITOR	0402	1	22P±5% 50V
C273		SMT CAPACITOR	0402	1	470P±10% 50V
C274		SMT CAPACITOR	0402	1	103±10% 50V
C275		SMT CAPACITOR	0402	1	470P±10% 50V
C276		SMT CAPACITOR	0603	1	470P±10% 50V
C277		SMT CAPACITOR	0603	1	105±10% 50V
C278		SMT CAPACITOR	0603	1	470P±10% 50V
C279		SMT CAPACITOR	0402	1	103±10% 50V
C280		SMT CAPACITOR	0402	1	12P±5% 50V
C281		SMT CAPACITOR	0402	1	103±10% 50V
C282		SMT CAPACITOR	0402	1	470P±10% 50V
C283-C284		SMT CAPACITOR	0402	2	102±10% 50V
C285		SMT CAPACITOR	0402	1	104±10% 50V
C286		SMT CAPACITOR	0402	1	22P±5% 50V
C287		SMT CAPACITOR	0402	1	NO USE

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
C288		SMT CAPACITOR	0603	1	105±10% 50V
C289-C290		SMT CAPACITOR	0402	2	NO USE
C291		SMT CAPACITOR	0402	1	104±10% 50V
C292		SMT CAPACITOR	0402	1	10P±0.25P 50V
C293		SMT CAPACITOR	0603	1	56P±5% 50V
C294		SMT CAPACITOR	0603	1	4P±0.1P 50V
C295		SMT CAPACITOR	0603	1	5P±0.1P 50V
C296-C297		SMT CAPACITOR	0603	2	3P±0.1P 50V
C298-C301		SMT CAPACITOR	0603	3	NO USE
C302		SMT CAPACITOR	0402	1	NO USE
C303		SMT CAPACITOR	0603	1	564±10% 50V
C304		SMT CAPACITOR	0603	1	11P±5% 50V
C305		SMT CAPACITOR	0402	1	223±10% 50V
C306		SMT CAPACITOR	0603	1	24P±5% 50V
C307		SMT CAPACITOR	0603	1	8P±0.25P 50V
C308		SMT CAPACITOR	0603	1	9P±0.25P 50V
C309		SMT CAPACITOR	0603	1	4P±0.1P 50V
C310		SMT CAPACITOR	0402	1	120P±5% 50V
C311		SMT CAPACITOR	0402	1	104±10% 50V
C312		SMT CAPACITOR	0402	1	102±10% 50V
C313		SMT CAPACITOR	0402	1	104±10% 50V
C314		SMT CAPACITOR	0402	1	470P±10% 50V
C315		SMT CAPACITOR	0402	1	102±10% 50V
C316		SMT CAPACITOR	0402	1	NO USE
C317		SMT CAPACITOR	0402	1	5P±0.1P 50V
C318		SMT CAPACITOR	0402	1	NO USE
C319		SMT CAPACITOR	0402	1	470P±10% 50V
C320		SMT CAPACITOR	0402	1	NO USE

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
C321		SMT CAPACITOR	0402	1	470P±10% 50V
C322		SMT CAPACITOR	0402	1	150P±5% 50V
C323		SMT CAPACITOR	0402	1	103±10% 50V
C324-C325		SMT CAPACITOR	0603	2	105±10% 50V
C326-C331		SMT CAPACITOR	0402	6	103±10% 50V
C332		SMT CAPACITOR	0402	1	470P±10% 50V
C333		SMT CAPACITOR	0402	1	100P±10% 50V
C334		SMT CAPACITOR	0402	1	104±10% 50V
E100-E102		SMT TANTALUM CAPACITOR	A type	3	NO USE
E200-E201		SMT TANTALUM CAPACITOR	A type	2	22uF±20% 10V
E203		SMT CAPACITOR	1206	1	106±10% 50V
E204		SMT TANTALUM CAPACITOR	A type	1	22uF±20% 6.3V
R100-R110		SMT RESISTOR	0402	11	NO USE
R200		SMT RESISTOR	0402	1	100K±5%
R201		SMT RESISTOR	0402	1	NO USE
R202		SMT RESISTOR	0402	1	100R±5%
R203-R204		SMT RESISTOR	0402	2	10K±5%
R205		SMT RESISTOR	0402	1	33K±5%
R206-R208		SMT RESISTOR	0402	3	10K±5%
R209		SMT RESISTOR	0402	1	8.2K±5%
R210		SMT RESISTOR	0402	1	NO USE
R211		SMT RESISTOR	0402	1	1M±5%
R212		SMT RESISTOR	0402	1	NO USE
R213		SMT RESISTOR	0402	1	10R±5%
R214		SMT RESISTOR	0402	1	22R±5%
R215-R216		SMT RESISTOR	0402	2	1K±5%
R217		SMT RESISTOR	0402	1	12K±5%
R218		SMT RESISTOR	0402	1	47K±5%

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
R219		SMT RESISTOR	0402	1	10R±5%
R220		SMT RESISTOR	0402	1	NO USE
R221		SMT RESISTOR	0402	1	NO USE
R222		SMT RESISTOR	0402	1	1K±5%
R223		SMT RESISTOR	0402	1	10K±5%
R224		SMT RESISTOR	0402	1	4.7K±5%
R225		SMT RESISTOR	0402	1	150K±1%
R226		SMT RESISTOR	0402	1	220R±5%
R227		SMT RESISTOR	0402	1	150K±1%
R228		SMT RESISTOR	0402	1	470K±5%
R229		SMT RESISTOR	0402	1	2.2K±5%
R230-R231		SMT RESISTOR	0402	2	1K±5%
R232		SMT RESISTOR	0402	1	150K±1%
R233-R234		SMT RESISTOR	0402	2	1K±5%
R235		SMT RESISTOR	0402	1	150K±1%
R236		SMT RESISTOR	0402	1	100K±5%
R237		SMT RESISTOR	0402	1	150K±1%
R238		SMT RESISTOR	0603	1	0R
R239		SMT RESISTOR	0402	1	22R±5%
R240		SMT RESISTOR	0402	1	56K±5%
R241		SMT RESISTOR	0603	1	56R±5%
R242		SMT RESISTOR	0402	1	100R±5%
R243-R244		SMT RESISTOR	0402	2	150K±1%
R245		SMT RESISTOR	0402	1	47R±5%
R246		SMT RESISTOR	1206	1	0.36R±1%
R247		SMT RESISTOR	0402	1	150K±5%
R248		SMT RESISTOR	1206	1	NO USE
R249		SMT RESISTOR	1206	1	0.36R±1%

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
R250		SMT RESISTOR	0402	1	10R±5%
R251		SMT RESISTOR	1206	1	0.36R±1%
R252		SMT RESISTOR	0402	1	1M±5%
R253		SMT RESISTOR	0402	1	39K±5%
R254		SMT RESISTOR	0402	1	10K±5%
R255		SMT RESISTOR	0603	1	47R±5%
R226-R227		SMT RESISTOR	0603	2	NO USE
R258		SMT RESISTOR	0603	1	47R±5%
R259		SMT RESISTOR	0402	1	2.7K±5%
R260		SMT RESISTOR	0402	1	220K±5%
R261		SMT RESISTOR	0402	1	22K±5%
R262		SMT RESISTOR	0402	1	10K±5%
R263		SMT RESISTOR	0402	1	NO USE
R264		SMT RESISTOR	0402	1	68K±5%
R265-C267		SMT RESISTOR	0402	3	10K±5%
R268		SMT RESISTOR	0402	1	1K±5%
R269		SMT RESISTOR	0402	1	100K±5%
R270		SMT DIGITAL TRANSISTOR	EMT3	1	DTC114EE
R271		SMT RESISTOR	0402	1	51K±5%
R272		SMT RESISTOR	0402	1	39K±5%
R273		SMT RESISTOR	0402	1	22R±5%
R274		SMT RESISTOR	0402	1	4.7K±5%
R275		SMT RESISTOR	0402	1	220R±5%
R276		SMT RESISTOR	0402	1	10K±5%
R277		SMT RESISTOR	0402	1	NO USE
R278		SMT RESISTOR	0603	1	100R±5%
R279-R280		SMT RESISTOR	0402	2	47K±5%
R281		SMT RESISTOR	0402	1	100K±5%

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
R282		SMT RESISTOR	0402	1	10K±5%
R283		SMT SMALL FIXED INDUCTOR	0402	1	1uH
R284		SMT RESISTOR	0402	1	220R±5%
R285		SMT RESISTOR	0402	1	100K±5%
R286		SMT RESISTOR	1206	1	10R±5%
R287		SMT RESISTOR	0402	1	39K±5%
R288-R291		SMT RESISTOR	0402	4	10K±5%
R292		SMT RESISTOR	0402	1	1K±5%
R293		SMT RESISTOR	0402	1	100R±5%
R294		SMT RESISTOR	0402	1	0R
R295		SMT RESISTOR	0402	1	56K±5%
RP200		SMT RESISTOR ARRAY	4D03	1	1KX4
VR200		SMT VARIOUS RESISTOR	VER3×3	1	NO USE
D200		SMT DIODE	0603	1	NO USE
D201		SMT LIGHTED DIODE (RX)	0603	1	GREEN
D202-D203		SMT DIODE	SC-79	2	HSC277
D204		SMT DIODE	SC-79	1	HVC131
D205		SMT NTC RESISTOR	0603	1	47K±5%
D206		SMT LIGHTED DIODE (TX)	0603	1	RED
D207		SMT DIODE	0603	1	GREEN
D208		SMT LIGHTED DIODE	F5	1	WHITE
D209		SMT DIODE	EMT3	1	1SS362
D210		SMT DIODE	1206	1	1N4148
D211		SMT DIODE	0805	1	KDR377E
D212		SMT DIODE	0805	1	NO USE
DS200		LCD		1	NOUSE
Q200		SMT DIGITAL TRANSISTOR	EMT3	2	2SC4617
Q201		SMT DIGITAL TRANSISTOR	EMT3	1	DTC114EE

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
Q202		SMT FET	SOT-89	1	RQA0009
Q203		SMT DIGITAL TRANSISTOR	EMT3	1	DTA144EE
Q204		SMT DIGITAL TRANSISTOR	EMT3	1	DTA114EE
Q205		SMT FET	SOT-89	1	2SK3078
Q206		SMT DIGITAL TRANSISTOR	EMT3	1	DTC144EE
Q207		SMT DIGITAL TRANSISTOR	EMT3	1	NOUSE
Q208		SMT TRANSISTOR	SC-23	1	NOUSE
Q209		SMT DIGITAL TRANSISTOR	EMT3	1	NOUSE
Q210		SMT TRANSISTOR	SOT-23	1	2SC3356
Q211-Q212		SMT DIGITAL TRANSISTOR	EMT3	2	DTC114EE
Q213		SMT DIGITAL TRANSISTOR	EMT3	1	DTC144TE
Q214		SMT DIGITAL TRANSISTOR	EMT3	1	DTA123JE
Q215		SMT DIGITAL TRANSISTOR	EMT3	1	DTC114EE
Q216		SMT TRANSISTOR	SOT-23	1	2SC4226
U100		SMT IC	QFN-24	1	RDA5802
U101		SMT IC	SOP-16	1	NO USE
U200		SMT IC	QFN-32	1	RDA1846
U201		SMT IC	SOT-223	1	BM1117CX
U202		SMT IC	SOP8	1	LY58-M
U203		SMT IC	LQFP-48	1	NO USE
U204		SMT IC	QFP-44N	1	STC12LE5A32AD
U205		SMT IC	MSOP-8	1	BL6290
U206		SMT IC	SSOP8	1	LM2904V
U207		SMT IC	SOT-89	1	KIA78L09F
U208		SMT IC	SOT-23	1	ME6206-33M
L100		SMT SMALL FIXED INDUCTOR	0603	1	150nH
L200		SMT FERRITE BEAD (BLACK)	0805	1	30T
L201-L203		SMT AIR-CORE COIL		3	3T

PARTS LIST

Ref. No	Parts No.	Description of item	Size (LxW)(mm)	Qty	Specification
L204		SMT FERRITE BEAD (BLACK)	0603	1	271T
L205-L206		SMT AIR-CORE COIL		2	4T
L207		SMT SMALL FIXED INDUCTOR	0603	1	10nH
L208		SMT SMALL FIXED INDUCTOR	0603	1	18nH
L209-L210		SMT FERRITE BEAD (BLACK)	0603	2	271T
L211		SMT FERRITE BEAD (BLACK)	0603	1	NO USE
L212		SMT FERRITE BEAD (BLACK)	0603	1	271T
L213		SMT SMALL FIXED INDUCTOR	0603	1	6.8uH
L214		SMT SMALL FIXED INDUCTOR	0603	1	2.2nH
L215		SMT AIR-CORE COIL		1	5T
L216		SMT AIR-CORE COIL		1	2T
L217		SMT FERRITE BEAD (BLACK)	0805	1	30T
L218		SMT WIRE WOUND INDUCTOR	0805	1	220nH
L219		SMT WIRE WOUND INDUCTOR	0805	1	150nH
L220		SMT SMALL FIXED INDUCTOR	0603	1	470nH
L221		SMT SMALL FIXED INDUCTOR	0603	1	NO USE
L222		SMT SMALL FIXED INDUCTOR	0603	1	2.2uH
L223		SMT SMALL FIXED INDUCTOR	0603	1	10nH
LS200		SPEAKER		1	F36 16R/1W
J200		SENSOR SWITCH		1	NO USE
J201		SPEAKER SOCKET 2.5mm		1	PJ-208B
J202		MIC SOCKET 3.5mm		1	EJ-3507
J203		DC POWER SOCKET		1	DC-011A
J204		KEY INTERFACE		1	QX928PK2.PCB
MG200		MOTOR SERVO		1	NO USE
MK200		MIC		1	6035P -50DB
S1		Emergency		1	Emergency
S2		FP2 BUTTON		1	FP1

