SERVICE MANUAL

INTRINSICALLY SAFE
TWO-WAY RADIO

TC-700

Free hotline:800-830-7020
www. hyt. com. cn

813700EX00100
2007-01-20

Contents

General

Manual Scope

This manual is intended for use by experienced technicians familiar with similar types of communication equipment. It contains all service information required for the equipment and is current as of the publication date.

HYT endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and design are subject to change without prior notice due to continuous technology development. Changes which may occur after publication are highlighted by Revision History contained in Service Manual.

Safety and General Information

Any person using the radio must observe the standard safety regulations and read the certificate to prevent incorrect operation or abuse of the radio.

The following additional safety regulations must also be observed:

- ③ Unauthorized modification of the radio may result in termination of Ex-protection.
- ③ Unauthorized service or repairs are inhibited.
- ③ Do not disassemble the ATEX-approved intrinsically safe products.
- ③ The radio must not be opened in a hazardous area.
- ③ The battery must only be changed in a non hazardous area.
- ③ Additional or spare batteries must not be carried into a hazardous area.
- ③ Use only the Ex-battery BL1703-Ex specified by HYT. The use of other batteries is strictly prohibited and will result in termination of Ex-protection.
- ③ The battery must only be charged in a non hazardous area with the designated charger CH10L11-Ex.
- ③ Use only HYT approved accessories.
- ③ Ensure that the radio is not taken into Zone 0 areas.
- ③ To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any facility where posted notices instruct you to do so. Hospital or health facilities may be using equipment that is sensitive to external RF energy.
- ③ When instructed to do so, turn off your radio when on board an aircraft. Any use of a radio must be in accordance with airline regulations or crew instructions.
- ③ To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area, or in areas posted: “Turn off two-way radio.” Obey all signs and instructions.
- ③ For vehicles with an air bag, do not place a radio in the area over an air bag or in the air bag deployment area.
- ③ Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.
- ③ Do not expose the radio to direct sunlight over a long time, nor place it close to heating source.

WARNING: Failure to use an ATEX-approved Product unit with an ATEX-approved battery or ATEX-approved accessories specifically approved for that product may result in the dangerously unsafe condition of an unapproved radio combination being used in a hazardous location.

ATEX-Approved Intrinsically Safe Radio Information

ATEX-Approved Intrinsically Safe Radio

⑤ Certification

ATEX-approved Intrinsically Safe

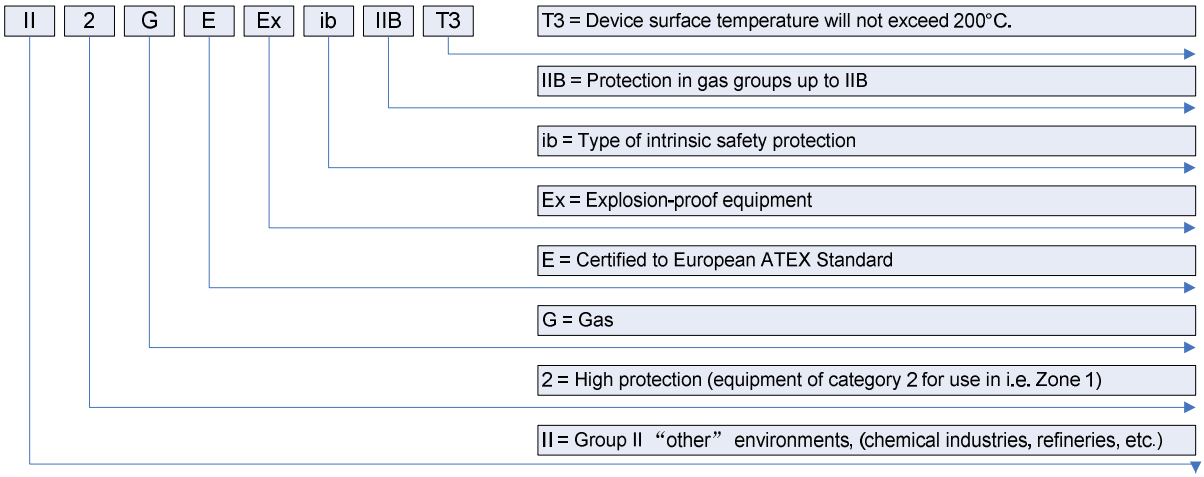
ZELM 06 ATEX 0321

II 2G EEx ib IIB T3
II 2D Ex tD A21 IP64 T160°C

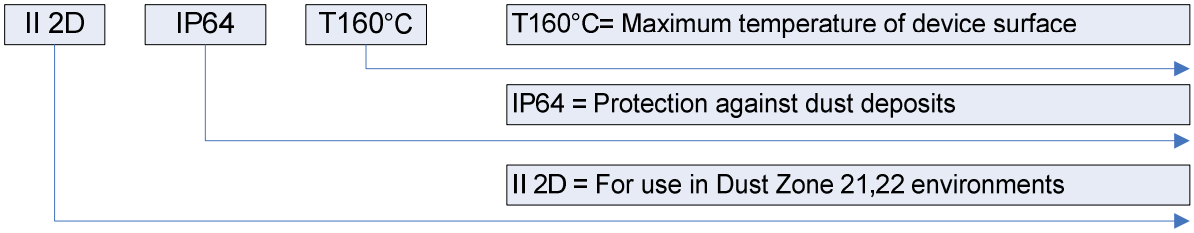
⑤ ATEX (Atmospheres Explosibles) Directive 94/9/EC

Introduced in 2003, this is the European Union directive to which all two-way radios must conform if used in potentially explosive environments. It replaces the Cenelec classification in all European Union member states and EFTA countries. All HYT professional series ATEX portable radios are approved to ATEX Protection Classes II 2 G EEx ib IIB T3 and II 2D IP64 T160°C as interpreted in the following tables:

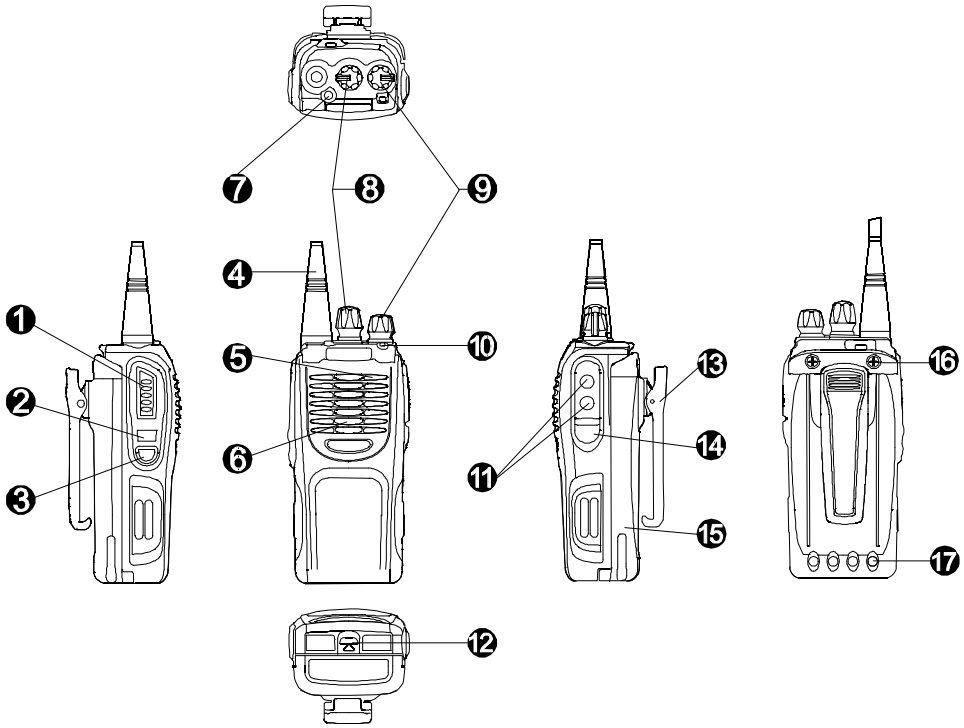
ATEX Gas Protection:



ATEX Dust Protection:



Radio Overview



1. PTT (Push-to-Talk) Key
   Press and hold down the PTT key to transmit, release it to receive.

2. SK1 (Side Key 1) (programmable)
3. SK2 (Side Key 2) (programmable)
4. Antenna
5. Microphone
6. Speaker
7. TK (Top Key) (programmable)
8. Channel Selector Knob
   Rotate the knob to select from channel 1 to 16.
9. Radio On-Off/Volume Control Knob
   Rotate the knob clockwise to turn the radio on, rotate the knob fully counter-clockwise until a “click” is heard to turn the radio off.
   Turn the knob clockwise to increase the volume, or counter-clockwise to decrease the volume.
10. LED Indicator Table below explains the functions of the LEDs and beeps.
11. Accessory Jack
12. Battery Latch
13. Belt Clip
14. Accessory cover
15. Battery
16. Screw
17. Electrode Piece

Wired Cloning	Source radio: Turn the source radio on while holding down the PTT and SK2. Slave radio: Rotate the On-Off/Volume Control knob clockwise to turn the slave radio on.	The orange LED flashes twice.
	Source radio (power on the slave radio and connect the cloning cable, then press the PTT of source radio to initiate cloning.)	1) LED solidly glows red when cloning progress; 2) LED goes out when cloning is finished; 3) LED flashes red when cloning fails.
	Slave radio	1) LED solidly glows green when cloning progress; 2) LED goes out when cloning is finished.
Wireless cloning	Turn on both the source radio and slave radio while holding down the PTT and SK1. Both radios are required to be on the same channel for cloning.	The orange LED flashes once.
	Source radio (turn on both the source radio and slave radio while holding down the PTT and SK1, then press the PTT of source radio while both radios are on the same channel to initiate cloning.)	LED solidly glows red when cloning progress.
	Slave radio	1) LED solidly glows green when cloning progress; 2) LED flashes green and radio sounds beep tone, when cloning is finished; 3) LED flashes red when cloning fails.
Power On		The green LED flashes once.
Low Battery Alert		LED flashes red, and radio sounds three beeps every 30 seconds.
Transmitting		LED glows red
Receiving		LED glows green when carrier presents.
Scanning		Green LED flashes once every 1 second.
Programming		Reading: LED glows red; Writing: LED glows green.
Encoding (DTMF/PTT ID/2-Tone (5-Tone)/HDC1200/HDC2400TM)		1) LED glows red while transmitting; 2) LED glows orange when transmission ends.

Decoding (2-Tone (5-Tone)/HDC1200/HDC2400TM)	Orange LED flashes after the signalling is successfully decoded.
Select Power Level	0.5W: One beep is heard; 1.5W: Two beeps are heard; 3W: Three beeps are heard.
Function Key Press	One beep to enable, two beeps to disable.

Software Specifications

Specifications

Conventional Mode

1. Mechanical Selector Knob (16 channels)
   VHF: 136-174 MHz
   UHF: 420-470 MHz
2. Channel Spacing: 25/20/12.5KHz (programmable)
3. Step: 2.5/5/6.25KHz
4. LED Indicator: Red/Green/Orange
5. 3 Programmable Function Keys
6. CTCSS/CDCSS Encode & Decode
7. DTMF Encode
8. 2-Tone (5-Tone) Encode & Decode
9. HDC2400^{TM} Encode & Decode
10. HDC1200 Encode & Decode
11. Squelch Mode:
    1) Carrier
    2) CTCSS/CDCSS
    3) Optional Signalling
    4) CTCSS/CDCSS AND 2-Tone (5-Tone)/ HDC2400^{TM}/HDC1200
    5) CTCSS/CDCSS OR 2-Tone / HDC2400^{TM}/HDC1200
12. Scan
13. Time-Out-Timer (TOT)
14. Rental
15. Battery Save
16. Emergency
17. PTT ID
18. Busy Channel Lockout (Tx Admit Criteria)

Description

1. User Mode

This mode is for normal operation.

2. All Reset Mode

Firstly ground the SELF point, and then turn the radio on while holding down TK key for 2 seconds. The radio enters all reset mode with green LED flashing twice. Turn the channel selector knob to the selected channel and press PTT, the radio data is all reset (All clone modes will be automatically activated when

All Reset is completed). Frequency settings are shown as follows:

Selected Channel	Frequency Band(MHz)	F1 (MHz)	F2 (MHz)	F3 (MHz)	F4 (MHz)	F5 (MHz)
1	136 - 174 (V)	TX1:136 RX1:136.1	TX2:145.5 RX2:145.6	TX3:155 RX3:155.1	TX4:164.5 RX4:164.6	TX5:174 RX5:173.9
2	400 - 450 (U1)	TX1:400 RX1:400.1	TX2:412.5 RX2:412.6	TX3:425 RX3:425.1	TX4: 437.5 RX4:437.6	TX5:450 RX5:449.9
3	440 - 490 (U2)	TX1:440 RX1:440.1	TX2:452.5 RX2:452.6	TX3:465 RX3:465.1	TX4:477.5 RX4:477.6	TX5:490 RX5:489.9
4	420 - 470 (U3)	TX1:420 RX1:420.1	TX2:432.5 RX2:432.6	TX3:445 RX3:445.1	TX4:457.5 RX4:457.6	TX5:470 RX5:469.9
5	470 - 520 (U4)	TX1:470 RX1:470.1	TX2:482.5 RX2:482.6	TX3:495 RX3:495.1	TX4:507.5 RX4:507.6	TX5:520 RX5:519.9
6	300 - 350 (U6)	TX1:300 RX1:300.1	TX2:312.5 RX2:312.6	TX3:325 RX3:325.1	TX4:337.5 RX4:337.6	TX5:350 RX5:349.9
7	350 - 390 (U5)	TX1:350 RX1:350.1	TX2:360 RX2:360.1	TX3:370 RX3:370.1	TX4:380 RX4:380.1	TX5:390 RX5:389.9
8	450 - 520 (U8)	TX1:450 RX1:450.1	TX2:467.5 RX2:467.6	TX3:485 RX3:485.1	TX4:502.5 RX4:502.6	TX5:520 RX5:519.9
9	400 - 470 (U7)	TX1:400 RX1:400.1	TX2:417.5 RX2:417.6	TX3:435 RX3:435.1	TX4:452.5 RX4:452.6	TX5:470 RX5:469.9

Channel data is shown as follows:

Channel	Rx Frequency (MHZ)	Tx Frequency (MHZ)	Signalling	Power	Channel Spacing
1	RX1	TX1	None	H	25KHZ
2	RX3	TX3	None	H	25KHZ
3	RX5	TX5	None	H	25KHZ
4	RX1	RX1	None	LO	20KHZ
5	RX3	RX3	None	LO	20KHZ
6	RX5	RX5	None	LO	20KHZ
7	RX1	RX1	None	LO	12.5KHZ
8	RX3	RX3	None	LO	12.5KHZ
9	RX5	RX5	None	LO	12.5KHZ
10	RX3	RX3	67HZ	LO	25KHZ
11	RX3	RX3	254.1HZ	LO	25KHZ
12	RX3	RX3	023	LO	25KHZ
13	RX3	RX3	754	LO	25KHZ
14	RX3	RX3	2-TONE	LO	25KHZ
15	RX3	RX3	5-TONE	LO	25KHZ
16	RX3	RX3	None	LO	25KHZ

3. Wireless Cloning Mode

Select wireless cloning from optional functions in programming software, turn the radio on while holding down PTT and SK1 key simultaneously for 2 seconds, then the source and slave radios enter wireless cloning mode with orange LED flashing once (when both radios are turned on and stay in the same channel), hold down PTT on the source radio to begin cloning. During cloning progress, the source radio emits red LED and the slave radio emits green LED. When cloning is finished, the slave radio flashes green LED and emits Beep tone, and the source radio shuts off LED. If cloning failed, the slave radio flashes red.

4. Wired Cloning Mode

Select Wired Cloning from optional functions in programming software, turn the radio on while holding down PTT and SK2 key simultaneously for 2 seconds, then the source radio enters Wired Cloning mode with orange LED flashing twice. Then simply turn the slave radio on. Hold down PTT on the source radio to begin cloning. During cloning progress, the source radio emits red LED and the slave radio emits green LED. When cloning is finished, both radios shut off LED. If cloning failed, the source radio flashes red.

5. Manual Adjust Mode

Manual adjustment is performed to adjust frequency deviation, power, sensitivity, squelch, etc.

Note: Prior to entering this mode, select the Manual Adjust Mode from optional functions in programming software.

The manual adjustment operations are detailed as follows:

(1) Enter the manual adjust mode

Turn the radio on by holding down TK and SK2 key simultaneously for 2 seconds, then the radio enters manual adjust mode with red LED flashing twice.

(2) Channel number on the channel selector knob

Adjust the settings on the selected channel. Each changing of channel selects 25KHz channel spacing and low frequency F1.

(3) SK2 key

Sets the frequency. 1 point tuning adjusts center frequency; 3 point tuning adjusts F1, F3, F5; 5 point tuning adjusts F1-F5.

The frequency toggles at a low to high cycle. Green LED flashes once when adjusting F1.

(4) TK key

Use to toggle the channel spacing among 25 KHz, 20 KHz and 12.5 KHz. Red LED flashes once when the 25 KHz is selected.

(5) PTT/SK1

PTT→Increase

SK1→Decrease

PTT/SK1 is pressed to increase or decrease the value of the adjusting item. Red LED glows indicating the maximum value and green LED indicating the minimum value. Hold down the key to increase or decrease the value continuously.

Press PTT key to save the BATT LOW, VOX and SQL settings, then green LED glows once.

(6) Select adjustment group

The first group of adjustment items is selected once the radio enters the manual adjust mode.

Select the 16th channel and press PTT key to enter the next group. Press it again to return to the first group. Orange LED flashes once when the first group is selected and flashes twice when the second group is selected.

(7) Frequency Setting

5 point tuning (MHz) TX: { TX1,TX2,TX3,TX4,TX5}
RX: { RX1,RX2,RX3,RX4,RX5}
3 point tuning (MHz) TX: { TX1, TX3, TX5}
RX: { RX1, RX3, RX5}
1 point tuning (MHz) TX: { TX3}
RX: { RX3}

First Group of Adjustment Items				
Channel No.	**Adjustment Item**	**Remarks**		
		25KHz	20KHz	12.5KHz
1	Tx power LOW	5 point tuning		
2	CDCSS PLL balance	3 point tuning (wide)		
3	CDCSS deviation	3 point tuning (wide)	1 point tuning	1 point tuning (narrow)
4	CTCSS deviation LOW (67Hz)	3 point tuning (wide)	1 point tuning	1 point tuning (narrow)
5	CTCSS deviation CENTER (136.5Hz)	3 point tuning (wide)	1 point tuning	1 point tuning (narrow)
6	CTCSS deviation HIGH (254.1Hz)	3 point tuning (wide)	1 point tuning	1 point tuning (narrow)
7	AK2346 audio deviation (TX)	3 point tuning (wide)	1 point tuning	3 point tuning (narrow)
8	2 TONE deviation	1 point tuning (wide)	1 point tuning	1 point tuning (narrow)
9	DTMF deviation	1 point tuning (wide)	1 point tuning	1 point tuning (narrow)
10	MSK deviation	3 point tuning (wide)	1 point tuning	1 point tuning (narrow)
11	TX power HIGH	5 point tuning		
12	TX voltage LOW	1 point tuning		

Second Group of Adjustment Items				
Channel No.	**Adjustment Item**	**Remarks**		
		25KHz	20KHz	12.5KHz
1	RX sensitivity	5 point tuning		
2	AK2346 volume (RX)	1 point tuning (wide)	1 point tuning	1 point tuning (narrow)
3	Squelch level 3 (OPEN)	5 point tuning (wide)	1 point tuning	3 point tuning (narrow)
4	Squelch level 3 (SQUELCH)	5 point tuning (wide)	1 point tuning	3 point tuning (narrow)
5	Squelch level 9 (OPEN)	5 point tuning (wide)	1 point tuning	3 point tuning (narrow)
6	Squelch level 9 (SQUELCH)	5 point tuning (wide)	1 point tuning	3 point tuning (narrow)
7	RX voltage LOW	1 point tuning		

6. PC Tuning Mode

Select tuning mode of programming items in the programming software and then tuning as the setting.

Circuit Description

Power Supply

The radio power is supplied by the battery. The power supply is from B+, and supplies power SWB+ for the three AVRs, after passing through fuse FE250mA and switch. IC504 supplies 5V (M5V) voltage for the control circuit. And IC503 supplies 5V (C5V) voltage for the shared circuit. IC502 supplies voltage for the transmit/receive circuit. While transmitting, T5C becomes low level and Q502 is turned on to supply 5V (T5V) voltage for the transmit circuit. While receiving, R5C becomes low level and Q504 is turned on to supply 5V (R5V) voltage for the receive circuit. Power supply for RF is from B+ and works after passing through fuse FE4 2A. Power supply for audio PA is from B+ and works after passing through fuse FE5 0.5A.

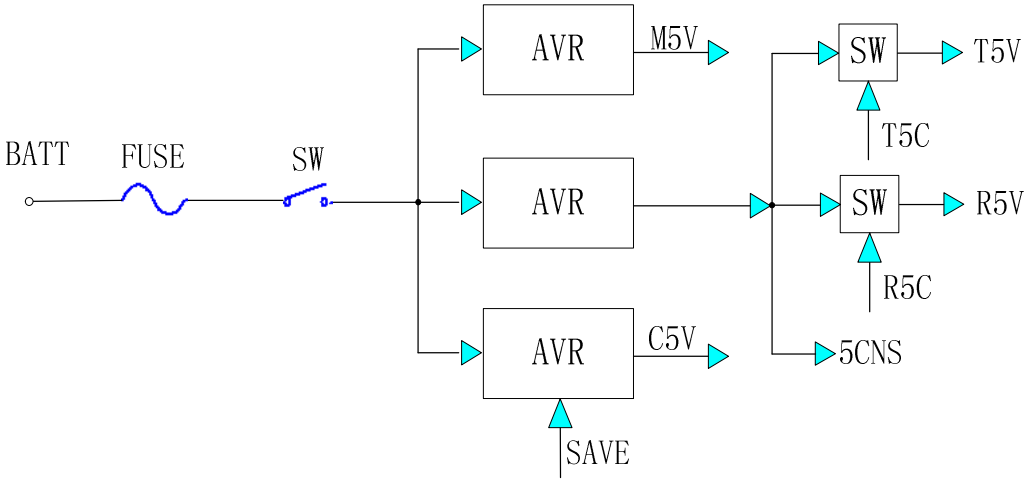


Fig. 1 Power Supply Block Diagram

PLL Frequency Synthesizer

PLL circuit generates the first local oscillator signal for receive and RF signal for transmit.

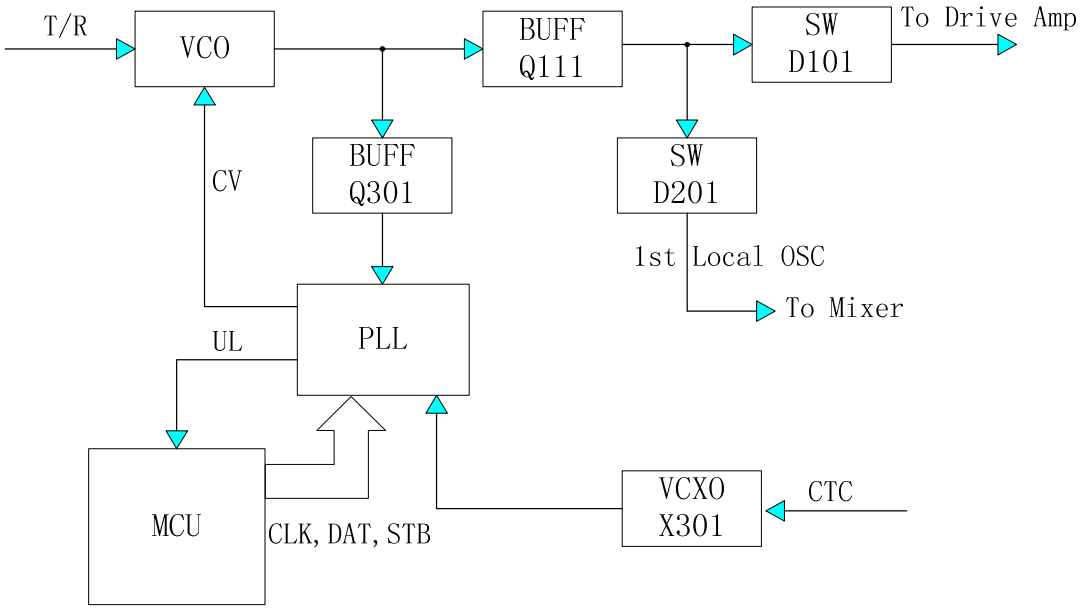


Fig.2 PLL Block Diagram

1. PLL Circuit

Step frequency of PLL can be 2.5 KHz, 5.0 KHz or 6.25 KHz. A 16.8MHz reference oscillator signal is divided at IC301 by a counter to generate a 2.5 KHz, 5.0 KHz or 6.25 KHz reference frequency. Output signal from VCO is buffer amplified by Q301 and divided at IC301 by a frequency divider. The divided signal is compared with 2.5 KHz, 5.0 KHz or 6.25 KHz reference signal in the phase comparator of IC301. The output signal from phase comparator is filtered through a low pass filter to generate a level D.C., and the level D.C. controls oscillator frequency by controlling VCO.

2. VCO

The operating frequency is generated by Q302 in transmit mode and by Q307 in receive mode. Operating frequency generate a control voltage by phase comparator to control varactor so that the oscillator frequency is consistent with the MCU preset frequency (D301、D302、D303 and D304 in transmit mode, and D307、D308、D309 and D310 in receive mode). T/R pin is set high level in receive mode, and low level in transmit mode. The output from Q302 and Q307 is amplified by Q304 and sent to buffer amplifier.

3. Unlock Detector

An unlock condition appears if low level occurs at MUXOUT pin of IC301. Transmission is inhibited if this condition is detected by microprocessor.

Receiver

The receiver utilizes double conversion superheterodyne (UHF)/(VHF).

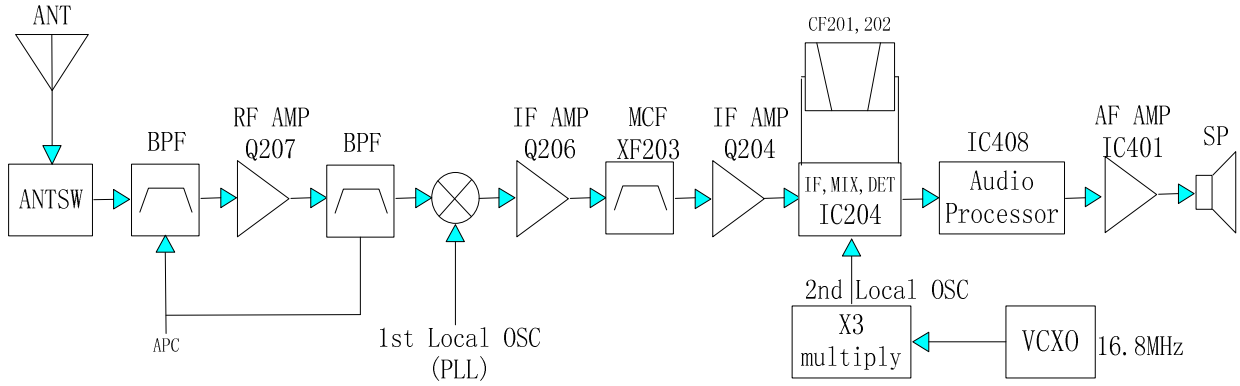


Fig. 3 Receiver Section Configuration

1. Front-end RF Amplifier

The signal from antenna is amplified at RF amplifier (Q207) after passing through a transmit/receive circuit and a band pass filter. Before passing the first mixer, the amplified signal is filtered through another band pass filter to remove unwanted signals.

2. First Mixer

The signal from RF amplifier is mixed with the first local from PLL frequency synthesizer circuit at the fix mixer (IC202) to create a 49.95MHz first IF signal. The first IF signal is then fed through a crystal filter (XF203) to further remove unwanted signals.

3. IF Amplifier

The first IF signal is amplified by Q206 before passing through crystal filter and by Q204 after crystal filter and then enters IF processing chip IC204. The signal from IC204 is mixed with the second oscillator signal again in IC204 to create a 450 KHz second IF signal. The second IF signal then passes through a

450KHz ceramic filter (wide: CF201， narrow: CF202) to eliminate unwanted signals before it is amplified and detected in IC204.

4. Narrow/Wide Switch Circuit

Pin WCON and pin NCON of IC500 outputs wide (high level) and narrow (low level) channel spacing signal respectively to turn on corresponding diode-connector, and to choose ceramic filter CF201 (wide) or CF202 (narrow) to filter useless spurious signal.

5. AF Amplifier

The resulting AF signal from IC204 enters baseband processing chip IC408. The processed AF signal is then amplified by an AF power amplifier (IC401) to drive the speaker.

Transmitter

1. AF and Signalling

AF signal from the microphone is amplified and low-pass-filtered in IC402 before it enters baseband processing chip IC408, which also enters CTCSS/CDCSS/DTMF/2-Tone (5-Tone) signalling generated by CPU. The IC408 processed mixing signal enters VCO for direct FM modulation (see fig.5).

2. RF Power Amplifier

The transmit signal from VCO buffer amplifier (Q111) is amplified by Q101 and Q102. The amplified signal is then amplified by the power amplifier Q103 and Q104 (including a two-stage FET amplifier) to create 4.0W (UHF)/5.0W (VHF) RF power (see Fig. 6).

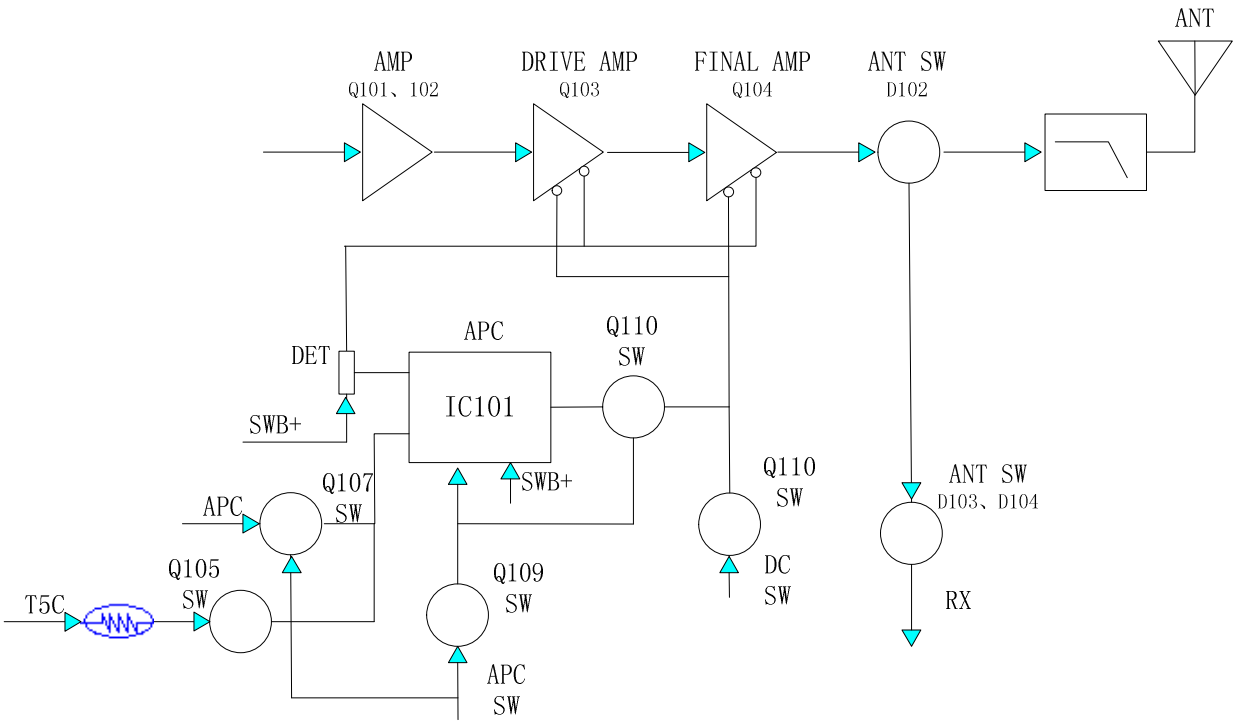


Fig. 4 APC System

3. Antenna Switch and LPF

Output signal from RF amplifier passes through a low-pass filter network and a transmit/receive switch circuit comprised of D102, D103 and D104 before it reaches the antenna terminal. D103 and D104 is turned on (conductive) in transmit mode and off (isolated) in receive mode.

4. APC

The automatic power control (APC) circuit stabilizes the transmit power by detecting the drain current of final stage amplifier FET. IC101 (2/2) compares the preset reference voltage with the voltage obtained from final current. APC voltage is in proportion to the difference between auto detect voltage and reference voltage output from IC101 (1/2). The output voltage controls FET power.

Baseband and Signalling System

The block diagram of signalling section is shown as figure 5.

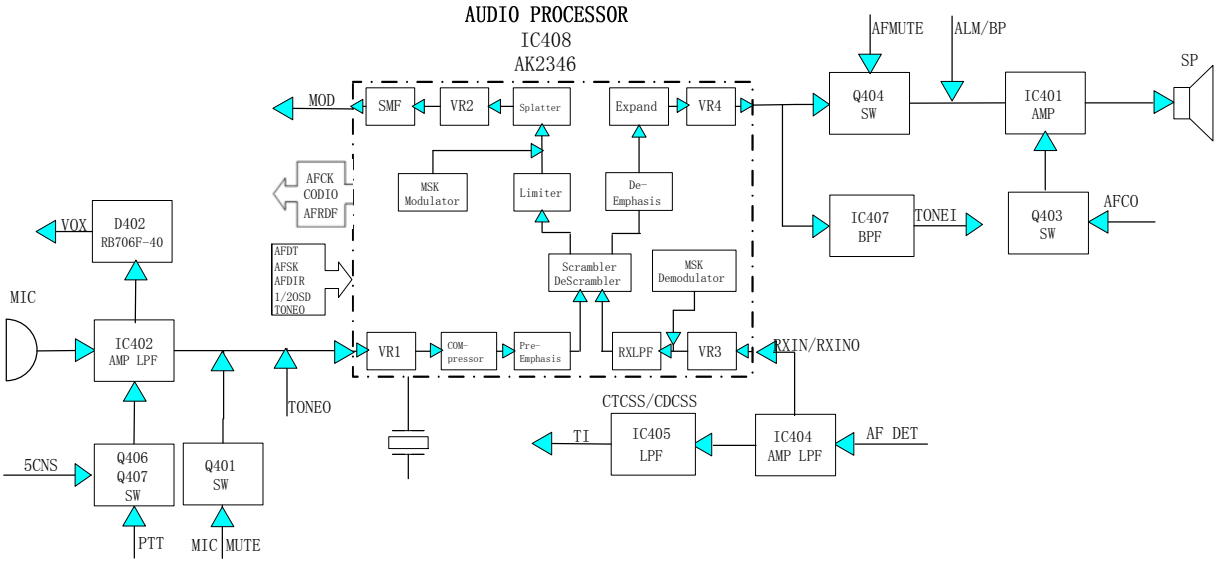


Fig. 5 AF and Signalling Circuit

1. CTCSS/CDCSS

Transmit: CTCSS/CDCSS signalling produced by CTCSS-PLL pass a low pass filter and then enters VCXO. CTCSS/CDCSS signalling produced by CTCSS-OUT pass a low pass filter and then mixed with AF before enters VCO.

Receive: Demodulated signal enters MCU after pass IC404、IC405. MCU then judges whether CTCSS/CDCSS matches the preset values or not. According the result, the out tone will be controlled by AFMUTE.

2. 2-Tone (5-Tone) and DTMF

Transmit: The signal produced by MCU provides a Tx and SP output tone, and is then applied to the baseband processing IC. The signal in mixed with the audio signal and goes to the VCO.

Receive: Demodulated signal is filtered after passing baseband processing IC, and then enters MCU for decoding.

3. MSK

Transmit: MSK signal produced by baseband processing IC enters VCO together with AF signal for modulation.

Receive: MSK input of demodulating IC is sent to AK2346 for demodulation after being amplified. The demodulated signal is then sent to MCU for decoding.

4. AF

Transmit: AF signal from MIC enters baseband processed IC for amplification, pre-emphasis etc. after being amplified. And then it enters VCO for modulation.

Receive: Demodulated AF signal enters the baseband processing IC for amplification, de-emphasis,

etc., after being amplified. And then it enters AF PA driven speaker.

Baseband processed chip provides functions for processing signal as amplifying, filtering, emphasizing, scrambling, companding, and amplitude limiting.

Control System

The IC500 CPU operates at 9.8304 MHz.

The block diagram of MCU control system is shown as the following figure:

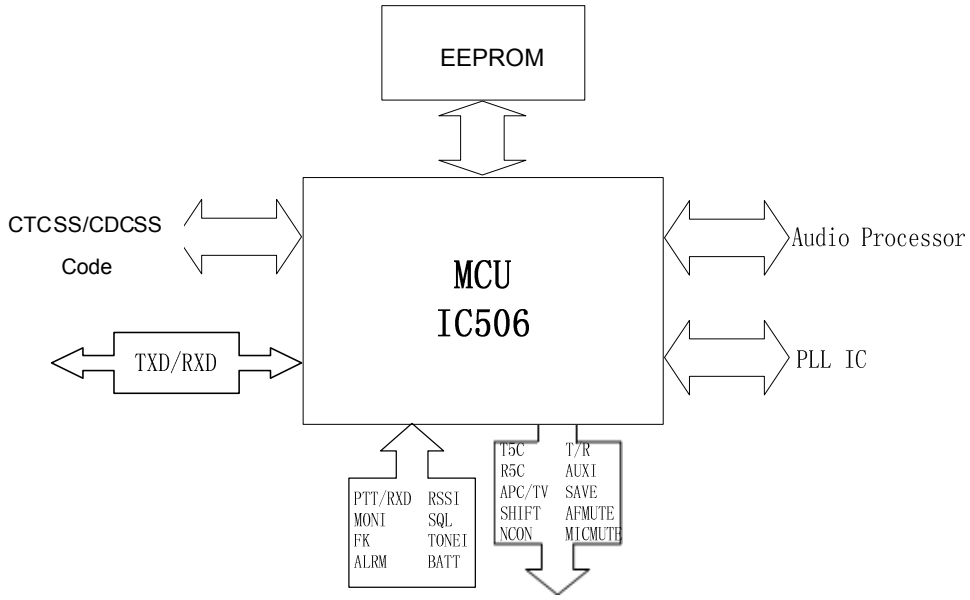


Fig.6 MCU Block Diagram

Circuit in this section is mainly comprised of MCU, EEPROM etc.

MCU control circuit accomplishes the following functions: accomplish the reset initialization according to the programmed feature of the radio when power on; detect keying signal and monitor battery voltage; send necessary frequency data to PLL according to encode of the channel; switch and control transmit/receive according to the signal input from PTT; turn on/off the mute circuit according to the input signalling decode signal and squelch level signal; output control signal to control the light/off of LED; control signalling process IC to perform tasks.

CPU Pins

No.	MCU Port	Port Name	Input/Output	Features
1	P94/DA1	APC/TV	O	Automatic Power Control
2	P93/DA0	TONEO	O	DTMF/2-Tone (5-Tone)/Beep tone output/ ALARM tone output
3	P92/TB2IN	NC	O	NC
4	P91		O	
5	P90	SHIFT	O	Clock beat-frequency
6	BYTE	BYTE	I	
7	CNVSS	CNVSS	I	
8	P87/XCIN		O	
9	P86/XCOUT		O	
10	RESET	RESET	I	Input low level to enter all reset mode
11	XOUT	XOUT	O	Crystal oscillator output pin
12	VSS	GND	I	GND
13	XIN	XIN	I	Crystal oscillator output pin
14	VCC	VCC	I	VCC
15	P85/NMI	NMI	I	
16	P84/INT2	AFCK	I	2346 TCLK
17	P83/INT1	AUX1	O	Indication for external scrambler
18	P82/INT0	AFRDF	I	2346 RDF
19	P81		O	
20	P80	PTTCO	O	PTTCO
21	P77	NC	O	
22	P76/TA3O	CTCOUT	O	CTC _OUT (PWM) TO VCO
23	P75	NC	O	
24	P74/TA2O	CTC_PLL	O	CTC_PLL (PWM)
25	P73	COM5	O	Indication for receive/transmit status
26	P72/TA1O	1/2OSC	O	
27	P71/RxD2/TB5IN	TONEI	O	
28	P70/TxD2			
29	P67/TxD1	TXD	O	Serial date output.
30	P66/RxD1	RXD	I	Serial date input.
31	P65		I	
32	P64		O	
33	P63/TxD0		I	COM4
34	P62/RxD0		O	COM3
35	P61			COM1

No.	MCU Port	Port Name	Input/Output	Features
36	P60			COM2
37	P57/RDY	EEDAT	I/O	EEPROM DATA, date input/output.
38	P56/ALE	EECLK	O	EEPROM CLK
39	P55/HOLD		I	
40	P54/HLDA	AFDIR	O	AK2346 DIR
41	P53/BLCK	AFSCK	O	2346 SCLK
42	P52/RD	NC	O	
43	P51/BHE	AFDT	O	2346 TDATA
44	P50/WR	WE	I	
45	P47/CS3	CODIO	I/O	Common date control (AK2346 DATA).
46	P46/CS2			
47	P45/CS1	SAVE	O	SAVE, power save control
48	P44/CS0	R5C	O	R5C Rx circuit power supply control
49	P43/A19	T5C	O	T5C Tx circuit power supply control
50	P42/A18			
51	P41/A17			
52	P40/A16			
53	P37/A15			
54	P36/A14			
55	P35/A13			
56	P34/A12			
57	P33/A11			
58	P32/A10			
59	P31/A9			
60	Vcc	VCC	I	VCC
61	P30/A8	NCON	O	Narrow control
62	Vss	GND	I	GND
63	P27/A7	AFCO	O	AFCO
64	P26/A6	WCON	O	Wide control
65	P25/A5	LEDR	O	Red LED control: H, lit; L, goes out
66	P24/A4	LEDG	O	Green LED control: H, lit; L, goes out
67	P23/A3	EN2	I	EN2
68	P22/A2	EN4	I	EN4
69	P21/A1	EN3	I	EN3
70	P20/A0	EN1	I	EN1
71	P17/INT5			
72	P16/INT4	AFMUTE		

No.	MCU Port	Port Name	Input/Output	Features
73	P15/INT3			
74	P14	TK	I	ALARM
75	P13	DC-Switch	O	
76	P12	PLL_UL	I	PLL unlock detect
77	P11	PLL_STB	O	PLL strobe output
78	P10	MICMUTE	O	MICMUTE
79	P07/D7	Option1	I	Programming cable detect.
80	P06/D6	PLL_DATA	O	PLL date input
81	P05/D5	PLL_CLK	O	PLL clock output
82	P04/D4	T/R	O	Receive/transmit control
83	P03/D3	APC-Switch	O	
84	P02/D2	PTT	I	PTT
85	P01/D1	SK1	I	MONI
86	P00/D0	SK2	I	FK
87	P107/AN7		I	MIC signal input
88	P106/AN6	BATT	I	BATT, battery voltage detect
89	P105/AN5	BATTSEL	I	Battery detect
90	P104/AN4	NC	I	
91	P103/AN3	SELF	I	Reset mode control: ground this pin to enter reset mode.
92	P102/AN2	RSSI	I	RSSI detect pin
93	P101/AN1	SQL	I	Squelch level input
94	AVSS	GND	I	A/D conversion power supply input.
95	P100/AN0	CTCIN	I	CTCSS input
96	VREF	VCC	I	A/D conversion reference voltage
97	AVCC	VCC	I	A/D conversion power supply input.
98	P97		O	
99	P96		O	
100	P95		O	

Parts List 1

TC-700 Ex PLUS VHF Parts List 1

No.	Material No.	Description	Qty.	Ref No.	Print No.
1	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R147	T5F
2	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R254	T1G
3	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R303	B3G
4	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R315	B4I
5	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R318	B4I
6	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R319	B4I
7	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R402	T1F
8	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R404	B3K
9	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R406	B2J
10	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R424	R444
11	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R444	B2I
12	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R453	B3K
13	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R457	B3K
14	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R495	B3J
15	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R497	T1H
16	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R504	T5I
17	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R510	T3K
18	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R519	T1I
19	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R590	B3K
20	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R608	T1G
21	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R609	T1G
22	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R152	B3G
23	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R214	B2G
24	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R344	B2I
25	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R348	B4J
26	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R349	B5I
27	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R350	B5I
28	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R456	T2E
29	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R222	B1G
30	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R223	B1E
31	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R301	B3I
32	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R305	B4G
33	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R308	B4G
34	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R335	B3I
35	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R346	B2I
36	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R454	T1D
37	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R605	T2A
38	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R228	B1E
39	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R311	B4G
40	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R317	B4I
41	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R352	B5I
42	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R405	B3K
43	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R466	T1J
44	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R468	T1C
45	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R512	T4I
46	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R522	T2H
47	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R534	T3I
48	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R550	T2J

No.	Material No.	Description	Qty.	Ref No.	Print No.
49	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R551	T4J
50	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R553	T2I
51	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R555	T4J
52	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R560	T2I
53	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R563	T4I
54	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R565	T3K
55	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R566	T3K
56	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R112	B4E
57	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R141	T4E
58	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R201	B2F
59	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R321	B4J
60	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R336	B5J
61	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R347	B4I
62	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R407	B3K
63	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R418	T3F
64	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R426	B3K
65	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R432	T1J
66	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R440	T1E
67	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R442	B3K
68	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R461	T1K
69	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R463	T1J
70	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R467	T1J
71	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R471	B2K
72	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R476	B2K
73	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R480	B3K
74	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R482	B3J
75	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R485	B3J
76	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R487	B4J
77	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R489	B4J
78	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R508	T2J
79	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R517	T4K
80	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R630	T2G
81	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R631	T3G
82	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R632	T3G
83	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R146	T4F
84	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R212	B2G
85	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R218	T1H
86	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R234	B3D
87	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R235	B3C
88	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R240	B3B
89	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R241	B3D
90	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R242	B3B
91	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R253	B3C
92	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R310	B4G
93	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R400	T1G
94	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R403	T1F
95	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R428	B2J
96	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R429	T1J
97	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R430	T1J
98	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R448	B4K
99	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R475	B2K
100	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R486	T1H

No.	Material No.	Description	Qty.	Ref No.	Print No.
101	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R493	B3J
102	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R516	T4K
103	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R557	T2I
104	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R559	T4K
105	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R142	T4E
106	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R462	T1K
107	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R474	B2J
108	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R634	T2G
109	3001051230000	Chip resistor 0402 12KΩ J 1/1	1	R238	B3B
110	3001051230000	Chip resistor 0402 12KΩ J 1/1	1	R483	B3J
111	3001051240000	Chip resistor 0402 120KΩ J 1/	1	R339	B3I
112	3001051520000	Chip resistor 0402 1.5KΩ J 1/	1	R203	B1G
113	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R409	B3J
114	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R469	T1H
115	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R498	B2J
116	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R138	T5F
117	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R139	T4F
118	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R425	T1E
119	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R464	T1K
120	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R465	T1K
121	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R307	B4G
122	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R351	B5I
123	3001051800000	Chip resistor 0402 18Ω J 1/16	1	R231	B2E
124	3001051820000	Chip resistor 0402 1.8KΩ J 1/	1	R217	B1F
125	3001051820000	Chip resistor 0402 1.8KΩ J 1/	1	R416	T2B
126	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R421	B1I
127	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R422	B1I
128	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R438	T1E
129	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R451	B4K
130	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R452	B4K
131	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R337	B3I
132	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R446	B4J
133	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R447	B4J
134	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R492	B3J
135	3001052200000	Chip resistor 0402 22Ω J 1/16	1	R104	B4F
136	3001052200000	Chip resistor 0402 22Ω J 1/16	1	R107	B4E
137	3001052200000	Chip resistor 0402 22Ω J 1/16	1	R309	B4G
138	3001052210000	Chip resistor 0402 220Ω J 1/1	1	R225	B1E
139	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R144	T4F
140	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R229	B1E
141	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R316	B4I
142	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R420	T3E
143	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R204	B1H
144	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R206	B1H
145	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R207	B1H
146	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R208	B1H
147	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R431	T1J
148	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R433	T1J
149	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R445	B4J
150	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R458	B3J
151	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R460	B3K
152	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R484	B3I

No.	Material No.	Description	Qty.	Ref No.	Print No.
153	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R494	B2J
154	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R302	B3I
155	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R345	B2I
156	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R439	B2I
157	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R477	B2K
158	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R548	B4A
159	3001052700000	Chip resistor 0402 27Ω J 1/16	1	R226	B1E
160	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R150	B3G
161	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R230	B1E
162	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R232	B2E
163	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R211	B2G
164	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R219	B1G
165	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R401	T1E
166	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R499	T1E
167	3001052790000	Chip resistor 0402 2.7Ω J 1/1	1	R236	B2B
168	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R103	B4F
169	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R108	B4E
170	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R101	B3F
171	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R148	B3G
172	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R151	B3G
173	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R216	T1G
174	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R419	B2I
175	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R478	B2K
176	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R481	B3K
177	3001053910000	Chip resistor 0402 390Ω J 1/1	1	R123	B5E
178	3001053910000	Chip resistor 0402 390Ω J 1/1	1	R304	B4H
179	3001053910000	Chip resistor 0402 390Ω J 1/1	1	R314	B4G
180	3001053920010	Chip resistor 0402 3.9KΩ J 1/	1	R106	B4F
181	3001053940000	Chip resistor 0402 390KΩ J 1/	1	R449	B4K
182	3001053940000	Chip resistor 0402 390KΩ J 1/	1	R523	T2H
183	3001054320000	Chip resistor 0402 4.3KΩ J 1/	1	R237	B3C
184	3001054700000	Chip resistor 0402 47Ω J 1/16	1	R111	B4E
185	3001054710000	Chip resistor 0402 470Ω J 1/1	1	R415	T2B
186	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R118	B3G
187	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R205	B1H
188	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R209	B1H
189	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R213	B2G
190	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R312	B5G
191	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R313	B3G
192	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R320	B4I
193	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R459	T1J
194	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R490	B4K
195	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R496	T1H
196	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R520	T2G
197	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R102	B4F
198	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R113	B4E
199	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R145	T5F
200	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R215	T1H
201	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R414	T3E
202	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R443	B2I
203	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R488	B4J
204	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R502	T2K

No.	Material No.	Description	Qty.	Ref No.	Print No.
205	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R506	T5J
206	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R507	T2J
207	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R515	T1I
208	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R535	T5J
209	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R536	T5J
210	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R538	T5J
211	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R539	T4H
212	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R549	T2G
213	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R556	T2I
214	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R558	T3K
215	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R561	T3K
216	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R322	B3G
217	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R408	T1E
218	3001054790000	Chip resistor 0402 4.7Ω J 1/1	1	R411	T1E
219	3001054790000	Chip resistor 0402 4.7Ω J 1/1	1	R412	T2E
220	3001055110000	Chip resistor 0402 510Ω J 1/1	1	R251	B3C
221	3001055130010	Chip resistor 0402 51KΩ J 1/1	1	R479	B2K
222	3001055620000	Chip resistor 0402 5.6KΩ J 1/	1	R117	B5E
223	3001055620000	Chip resistor 0402 5.6KΩ J 1/	1	R149	B3G
224	3001055620000	Chip resistor 0402 5.6KΩ J 1/	1	R410	T1E
225	3001055630000	Chip resistor 0402 56KΩ J 1/1	1	R472	B2K
226	3001055630000	Chip resistor 0402 56KΩ J 1/1	1	R473	B2K
227	3001056810000	Chip resistor 0402 680Ω J 1/1	1	R105	B4F
228	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R227	B1E
229	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R239	B2B
230	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R427	B3J
231	3001056830000	Chip resistor 0402 68KΩ J 1/1	1	R252	B2G
232	3001056830000	Chip resistor 0402 68KΩ J 1/1	1	R470	B2K
233	3001056840000	Chip resistor 0402 680KΩ J 1/	1	R220	B1G
234	3001058220000	Chip resistor 0402 8.2KΩ J 1/	1	R601	T1G
235	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R441	B2I
236	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R450	B4K
237	3001059130000	Chip resistor 0402 91KΩ F 1/1	1	R338	B3I
238	3001061800000	Chip resistor 0603 18Ω J 1/10	1	R109	B3F
239	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R115	B5E
240	3001070000000	Chip resistor 0805 0Ω J 1/8W(	1	R114	B4E
241	3002996830000	Trimmer resistor(2*2) 68KΩ(+25%)	1	VR1	T2I
242	3003992220000	Thermistor 0603 2.2KΩ J 10	1	TH301	B3I
243	3003994730000	Thermistor 0603 47KΩ J 100	1	RTHE1	B5D
244	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP506	T4J
245	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP507	T3K
246	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP509	T2I
247	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP511	T2J
248	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP512	T2J
249	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP514	T4J
250	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP516	T4I
251	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP517	T4K
252	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP524	T4I
253	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP505	T2J
254	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP518	T3I
255	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP519	T3I
256	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP525	T4I

No.	Material No.	Description	Qty.	Ref No.	Print No.
257	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP526	T4J
258	3101050400010	Chip capacitor 0402 4PF B 50V	1	C202	B2F
259	3101050400010	Chip capacitor 0402 4PF B 50V	1	C233	B1F
260	3101050400010	Chip capacitor 0402 4PF B 50V	1	C268	B1E
261	3101051010030	Chip capacitor 0402 100PF J 50	1	C152	T4E
262	3101051010030	Chip capacitor 0402 100PF J 50	1	C248	B3D
263	3101051010030	Chip capacitor 0402 100PF J 50	1	C252	B3C
264	3101051010030	Chip capacitor 0402 100PF J 50	1	C264	B3B
265	3101051010030	Chip capacitor 0402 100PF J 50	1	C273	B3B
266	3101051010030	Chip capacitor 0402 100PF J 50	1	C329	B4I
267	3101051010030	Chip capacitor 0402 100PF J 50	1	C339	B5I
268	3101051010030	Chip capacitor 0402 100PF J 50	1	C340	B5J
269	3101051010030	Chip capacitor 0402 100PF J 50	1	C341	B5J
270	3101051010030	Chip capacitor 0402 100PF J 50	1	C605	T2C
271	3101051010030	Chip capacitor 0402 100PF J 50	1	C607	T2D
272	3101051020010	Chip capacitor 0402 1000PF K 5	1	C101	B3F
273	3101051020010	Chip capacitor 0402 1000PF K 5	1	C104	B4F
274	3101051020010	Chip capacitor 0402 1000PF K 5	1	C106	B4E
275	3101051020010	Chip capacitor 0402 1000PF K 5	1	C107	B4E
276	3101051020010	Chip capacitor 0402 1000PF K 5	1	C108	B4F
277	3101051020010	Chip capacitor 0402 1000PF K 5	1	C110	B4F
278	3101051020010	Chip capacitor 0402 1000PF K 5	1	C114	B4E
279	3101051020010	Chip capacitor 0402 1000PF K 5	1	C116	B4E
280	3101051020010	Chip capacitor 0402 1000PF K 5	1	C118	B5E
281	3101051020010	Chip capacitor 0402 1000PF K 5	1	C120	B4D
282	3101051020010	Chip capacitor 0402 1000PF K 5	1	C124	B3C
283	3101051020010	Chip capacitor 0402 1000PF K 5	1	C133	B4C
284	3101051020010	Chip capacitor 0402 1000PF K 5	1	C155	B3G
285	3101051020010	Chip capacitor 0402 1000PF K 5	1	C156	B3G
286	3101051020010	Chip capacitor 0402 1000PF K 5	1	C158	B3G
287	3101051020010	Chip capacitor 0402 1000PF K 5	1	C201	B2F
288	3101051020010	Chip capacitor 0402 1000PF K 5	1	C210	B2G
289	3101051020010	Chip capacitor 0402 1000PF K 5	1	C238	B1E
290	3101051020010	Chip capacitor 0402 1000PF K 5	1	C256	B2C
291	3101051020010	Chip capacitor 0402 1000PF K 5	1	C259	B3C
292	3101051020010	Chip capacitor 0402 1000PF K 5	1	C262	B3C
293	3101051020010	Chip capacitor 0402 1000PF K 5	1	C266	B3B
294	3101051020010	Chip capacitor 0402 1000PF K 5	1	C301	B4I
295	3101051020010	Chip capacitor 0402 1000PF K 5	1	C310	B4G
296	3101051020010	Chip capacitor 0402 1000PF K 5	1	C314	B4G
297	3101051020010	Chip capacitor 0402 1000PF K 5	1	C318	B5G
298	3101051020010	Chip capacitor 0402 1000PF K 5	1	C331	B4J
299	3101051020010	Chip capacitor 0402 1000PF K 5	1	C332	B4J
300	3101051020010	Chip capacitor 0402 1000PF K 5	1	C346	B3I
301	3101051020010	Chip capacitor 0402 1000PF K 5	1	C347	B2I
302	3101051020010	Chip capacitor 0402 1000PF K 5	1	C358	B4I
303	3101051020010	Chip capacitor 0402 1000PF K 5	1	C406	T1E
304	3101051020010	Chip capacitor 0402 1000PF K 5	1	C409	B2J
305	3101051020010	Chip capacitor 0402 1000PF K 5	1	C462	T1J
306	3101051020010	Chip capacitor 0402 1000PF K 5	1	C497	B5K
307	3101051020010	Chip capacitor 0402 1000PF K 5	1	C512	T2K
308	3101051020010	Chip capacitor 0402 1000PF K 5	1	C538	T5J

No.	Material No.	Description	Qty.	Ref No.	Print No.
309	3101051020010	Chip capacitor 0402 1000PF K 5	1	C546	T3K
310	3101051020010	Chip capacitor 0402 1000PF K 5	1	C558	B4A
311	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C121	B4D
312	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C147	B3D
313	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C205	B2F
314	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C219	B2G
315	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C226	T1G
316	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C230	B1G
317	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C236	B1E
318	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C237	B1E
319	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C239	B1E
320	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C241	B2E
321	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C243	B2D
322	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C250	B3D
323	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C253	B2C
324	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C304	B3H
325	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C348	B2I
326	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C357	B5G
327	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C419	T2F
328	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C450	B4K
329	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C461	T1J
330	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C465	T1K
331	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C486	B4K
332	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C539	T3A
333	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C540	T3A
334	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C541	T3A
335	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C542	T3A
336	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C545	T3I
337	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C608	T1F
338	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C636	T2G
339	3101051200020	Chip capacitor 0402 12PF J 50V	1	C247	B2D
340	3101051200020	Chip capacitor 0402 12PF J 50V	1	C249	B2D
341	3101051230000	Chip capacitor 0402 0.012UF K	1	C448	B4J
342	3101051500020	Chip capacitor 0402 15PF J 50V	1	C100	B3G
343	3101051500020	Chip capacitor 0402 15PF J 50V	1	C102	B3F
344	3101051500020	Chip capacitor 0402 15PF J 50V	1	C267	B3B
345	3101051500020	Chip capacitor 0402 15PF J 50V	1	C359	B4I
346	3101051500020	Chip capacitor 0402 15PF J 50V	1	C514	T4K
347	3101051510000	Chip capacitor 0402 150PF(±5%)	1	C105	B4F
348	3101051510000	Chip capacitor 0402 150PF(±5%)	1	C258	B3B
349	3101051510000	Chip capacitor 0402 150PF(±5%)	1	C473	B2K
350	3101051800010	Chip capacitor 0402 18PF J 50V	1	C103	B4F
351	3101051800010	Chip capacitor 0402 18PF J 50V	1	C203	B2F
352	3101051800010	Chip capacitor 0402 18PF J 50V	1	C204	B2F
353	3101051800010	Chip capacitor 0402 18PF J 50V	1	C207	B2F
354	3101051800010	Chip capacitor 0402 18PF J 50V	1	C245	B2D
355	3101051820000	Chip capacitor 0402 1800PF K 5	1	C222	T1G
356	3101051820000	Chip capacitor 0402 1800PF K 5	1	C430	B3J
357	3101051830000	Chip capacitor 0402 0.018UF K	1	C421	B2J
358	3101051830000	Chip capacitor 0402 0.018UF K	1	C492	B2J
359	3101052200010	Chip capacitor 0402 22PF J 50V	1	C360	B4I
360	3101052200010	Chip capacitor 0402 22PF J 50V	1	C361	B4I

No.	Material No.	Description	Qty.	Ref No.	Print No.
361	3101052200010	Chip capacitor 0402 22PF J 50V	1	C471	B1J
362	3101052200010	Chip capacitor 0402 22PF J 50V	1	C472	B1K
363	3101052210010	Chip capacitor 0402 220PF K 50	1	C211	B2G
364	3101052210010	Chip capacitor 0402 220PF K 50	1	C451	B4K
365	3101052210010	Chip capacitor 0402 220PF K 50	1	C602	T1C
366	3101052210010	Chip capacitor 0402 220PF K 50	1	C603	T1C
367	3101052230000	Chip capacitor 0402 0.022UF K	1	C401	T1F
368	3101052230000	Chip capacitor 0402 0.022UF K	1	C422	T1D
369	3101052240010	Chip capacitor 0402 0.22UF Z 1	1	C407	T1F
370	3101052700000	Chip capacitor 0402 27PF J 50V	1	C244	B2D
371	3101052700000	Chip capacitor 0402 27PF J 50V	1	C515	T3K
372	3101052700000	Chip capacitor 0402 27PF J 50V	1	C516	T4K
373	3101052730000	Chip capacitor 0402 0.027UF K	1	C474	B2K
374	3101053300000	Chip capacitor 0402 33PF J 50V	1	C228	B1G
375	3101053300000	Chip capacitor 0402 33PF J 50V	1	C251	B2D
376	3101053300000	Chip capacitor 0402 33PF J 50V	1	C476	B2K
377	3101053300000	Chip capacitor 0402 33PF J 50V	1	C481	B3K
378	3101053300000	Chip capacitor 0402 33PF J 50V	1	C634	T3G
379	3101053930000	Chip capacitor 0402 0.039UF K	1	C449	B4K
380	3101054700010	Chip capacitor 0402 47PF J 50V	1	C144	B3B
381	3101054700010	Chip capacitor 0402 47PF J 50V	1	C263	B3B
382	3101054700010	Chip capacitor 0402 47PF J 50V	1	C402	T1E
383	3101054700010	Chip capacitor 0402 47PF J 50V	1	C420	T1E
384	3101054700010	Chip capacitor 0402 47PF J 50V	1	C444	B2I
385	3101054710010	Chip capacitor 0402 470PF K 50	1	C115	B3D
386	3101054710010	Chip capacitor 0402 470PF K 50	1	C132	T5E
387	3101054710010	Chip capacitor 0402 470PF K 50	1	C145	B5F
388	3101054710010	Chip capacitor 0402 470PF K 50	1	C148	B3D
389	3101054710010	Chip capacitor 0402 470PF K 50	1	C149	T3C
390	3101054710010	Chip capacitor 0402 470PF K 50	1	C153	T4F
391	3101054710010	Chip capacitor 0402 470PF K 50	1	C154	T4E
392	3101054710010	Chip capacitor 0402 470PF K 50	1	C209	B2G
393	3101054710010	Chip capacitor 0402 470PF K 50	1	C212	B2G
394	3101054710010	Chip capacitor 0402 470PF K 50	1	C315	B5G
395	3101054710010	Chip capacitor 0402 470PF K 50	1	C317	B5G
396	3101054710010	Chip capacitor 0402 470PF K 50	1	C343	B3I
397	3101054710010	Chip capacitor 0402 470PF K 50	1	C362	B5I
398	3101054710010	Chip capacitor 0402 470PF K 50	1	C413	T1F
399	3101054710010	Chip capacitor 0402 470PF K 50	1	C423	T1E
400	3101054710010	Chip capacitor 0402 470PF K 50	1	C426	B3K
401	3101054710010	Chip capacitor 0402 470PF K 50	1	C498	T1B
402	3101054710010	Chip capacitor 0402 470PF K 50	1	C499	T1C
403	3101054710010	Chip capacitor 0402 470PF K 50	1	C518	T2A
404	3101054710010	Chip capacitor 0402 470PF K 50	1	C521	T1I
405	3101054710010	Chip capacitor 0402 470PF K 50	1	C522	T1J
406	3101054710010	Chip capacitor 0402 470PF K 50	1	C524	T1I
407	3101054710010	Chip capacitor 0402 470PF K 50	1	C527	T4K
408	3101054710010	Chip capacitor 0402 470PF K 50	1	C528	T2B
409	3101054710010	Chip capacitor 0402 470PF K 50	1	C529	T3B
410	3101054710010	Chip capacitor 0402 470PF K 50	1	C533	T2H
411	3101054710010	Chip capacitor 0402 470PF K 50	1	C535	T3H
412	3101054710010	Chip capacitor 0402 470PF K 50	1	C537	T3H

No.	Material No.	Description	Qty.	Ref No.	Print No.
413	3101054710010	Chip capacitor 0402 470PF K 50	1	C610	T1G
414	3101054720000	Chip capacitor 0402 4700PF K 5	1	C485	B4J
415	3101054730000	Chip capacitor 0402 0.047UF K	1	C427	T1E
416	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C475	B2K
417	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C633	T2G
418	3101055610000	Chip capacitor 0402 560PF K 50	1	C477	B2K
419	3101055610000	Chip capacitor 0402 560PF K 50	1	C632	T3G
420	3101055630000	Chip capacitor 0402 0.056UF K	1	C410	B3K
421	3101056830000	Chip capacitor 0402 0.068UF K	1	C446	B4J
422	3101058200000	Chip capacitor 0402 82PF J 50V	1	C225	B1G
423	3101058200000	Chip capacitor 0402 82PF J 50V	1	C240	B1E
424	3101060300010	Chip capacitor 0603 3PF B 50V	1	C119	B5D
425	3101060400010	Chip capacitor 0603 4PF B 50V	1	C323	B4G
426	3101060500010	Chip capacitor 0603 5PF B 50V	1	C322	B4G
427	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C307	B3G
428	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C312	B4G
429	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C325	B4G
430	3101060600010	Chip capacitor 0603 6PF B 50V	1	C308	B4H
431	3101060900010	Chip capacitor 0603 9PF B 50V	1	C139	B4B
432	3101060900010	Chip capacitor 0603 9PF B 50V	1	C309	B3H
433	3101061010010	Chip capacitor 0603 100PF J 50	1	C126	B4C
434	3101061020000	Chip capacitor 0603 1000PF K 5	1	C135	B4B
435	3101061020000	Chip capacitor 0603 1000PF K 5	1	C349	B2H
436	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C311	B3G
437	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C324	B4H
438	3101061030010	Chip capacitor 0603 0.01UF K 2	1	R221	T1G
439	3101061050060	Chip capacitor 0603 1UF K 10V	1	C123	B3C
440	3101061050060	Chip capacitor 0603 1UF K 10V	1	C146	T3C
441	3101061050060	Chip capacitor 0603 1UF K 10V	1	C221	T1G
442	3101061050060	Chip capacitor 0603 1UF K 10V	1	C445	B2I
443	3101061050060	Chip capacitor 0603 1UF K 10V	1	C489	B3J
444	3101061050060	Chip capacitor 0603 1UF K 10V	1	C520	T1I
445	3101061200000	Chip capacitor 0603 12PF J 50V	1	C136	B4B
446	3101061200000	Chip capacitor 0603 12PF J 50V	1	C141	B4B
447	3101061590010	Chip capacitor 0603 1.5PF B 50	1	C125	B4C
448	3101062000000	Chip capacitor 0603 20PF J 50V	1	C127	B4C
449	3101062000000	Chip capacitor 0603 20PF J 50V	1	C140	B4B
450	3101062200010	Chip capacitor 0603 22PF J 50V	1	C138	B4B
451	3101062200010	Chip capacitor 0603 22PF J 50V	1	C161	B4D
452	3101062200010	Chip capacitor 0603 22PF J 50V	1	C306	B3H
453	3101062210000	Chip capacitor 0603 220PF J 50	1	C117	B4E
454	3101062700010	Chip capacitor 0603 27PF J 50V	1	C134	B4B
455	3101063000010	Chip capacitor 0603 30PF J 50V	1	C352	B2G
456	3101063000010	Chip capacitor 0603 30PF J 50V	1	CE10	B3B
457	3101063000010	Chip capacitor 0603 30PF J 50V	1	CE9	B3C
458	3101063300000	Chip capacitor 0603 33PF J 50V	1	C313	B3G
459	3101063300000	Chip capacitor 0603 33PF J 50V	1	C319	B5H
460	3101063690000	Chip capacitor 0603 3.6PF B 50	1	C321	B4G
461	3101065600000	Chip capacitor 0603 56PF J 50V	1	C305	B3G
462	3101066800000	Chip capacitor 0603 68PF J 50V	1	C351	B2H
463	3101068200000	Chip capacitor 0603 82PF J 50V	1	C131	B4C
464	3101072240000	Chip capacitor 0805 0.22UF K 2	1	C328	B5I

No.	Material No.	Description	Qty.	Ref No.	Print No.
465	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC301	B3H
466	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC302	B4H
467	3104072250010	Tantalum capacitor 0805 2.2UF M 10V	1	C327	B5I
468	3104072260010	Tantalum capacitor 0805 22UF M 6.3V	1	C470	B2J
469	3210108330000	Bobbin inductor 1206 33nH	1	L310	B4H
470	3210108390000	Multi-layer inductor 1206 39nH	1	L304	B3G
471	3210209102010	Bobbin inductor 1210 1uH	1	L115	T4B
472	3210305390000	Multi-layer inductor 0402 39nH	1	L202	B2F
473	3210306101000	Multi-layer inductor 0603 100nH	1	L117	B3G
474	3210306101000	Multi-layer inductor 0603 100nH	1	L305	B4G
475	3210306150000	Multi-layer inductor 0603 15nH	1	L203	B2D
476	3210306150000	Multi-layer inductor 0603 15nH	1	L208	B2C
477	3210306180000	Multi-layer inductor 0603 18nH	1	L100	B4F
478	3210306221000	Multi-layer inductor 0603 220nH	1	L502	T4J
479	3210306221000	Multi-layer inductor 0603 220nH	1	L503	T3I
480	3210306221000	Multi-layer inductor 0603 220nH	1	L504	T4K
481	3210306270000	Multi-layer inductor 0603 27nH	1	L101	B3E
482	3210306270000	Multi-layer inductor 0603 27nH	1	L107	B4E
483	3210306270000	Multi-layer inductor 0603 27nH	1	L301	B4I
484	3210306270000	Multi-layer inductor 0603 27nH	1	L306	B4G
485	3210306680000	Multi-layer inductor 0603 68nH	1	L322	B4I
486	3210306820000	Multi-layer inductor 0603 82nH	1	L102	B4F
487	3210306820000	Multi-layer inductor 0603 82nH	1	L103	B4E
488	3210406331000	Multi-layer inductor 0603 330nH	1	L317	B2I
489	3210406331000	Multi-layer inductor 0603 330nH	1	L318	B2G
490	3210406331000	Multi-layer inductor 0603 330nH	1	L319	B2G
491	3213212102000	Multi-layer inductor 1008 1uH	1	L105	B3E
492	3213212561000	Multi-layer inductor 1008 0.56uH	1	L315	B3I
493	3213306682000	Multi-layer inductor 0603 6.8uH	1	L302	B3H
494	3213306682000	Multi-layer inductor 0603 6.8uH	1	L308	B5G
495	3213306682000	Multi-layer inductor 0603 6.8uH	1	L309	B5H
496	3213306682000	Multi-layer inductor 0603 6.8uH	1	L313	B4G
497	3213306682000	Multi-layer inductor 0603 6.8uH	1	L320	B3H
498	3213306682000	Multi-layer inductor 0603 6.8uH	1	L321	B3G
499	3214307151000	Inductor 0805 150nH(Q)	1	L204	B1E
500	3214307151000	Inductor 0805 150nH(Q)	1	L205	B2E
501	3215107680000	Bobbin inductor 0805 68nH	1	L209	B3C
502	3221506601000	Chip ferrite bead 0603 600Ω±25	1	L104	B4F
503	3221506601000	Chip ferrite bead 0603 600Ω±25	1	L307	B4G
504	3221506601000	Chip ferrite bead 0603 600Ω±25	1	L311	B3G
505	3221506601000	Chip ferrite bead 0603 600Ω±25	1	L314	B5I
506	3221506601000	Chip ferrite bead 0603 600Ω±25	1	L316	B4J
507	3221506601000	Chip ferrite bead 0603 600Ω±25	1	L401	T1D
508	3221507221000	Chip ferrite bead 0805 220Ω±25	1	L106	B3D
509	3221507221000	Chip ferrite bead 0805 220Ω±25	1	L501	T2A
510	3221507600000	Chip ferrite bead 0805 60Ω±25%	1	L110	B3C
511	3231301030000	Air-core inductor E2 0.3*1.0*3TL	1	L111	B5D
512	3231301250000	Air-core inductor E2-0.30*1.2*5TL	1	L206	B3D
513	3231301250000	Air-core inductor E2-0.30*1.2*5TL	1	L207	B3D
514	3231301250000	Air-core inductor E2-0.30*1.2*5TL	1	L212	B3B
515	3231321050000	Air-core inductor E2 0.32*1.0*5TR	1	L211	B3B
516	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L118	B4C

No.	Material No.	Description	Qty.	Ref No.	Print No.
517	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L112	B4C
518	3231351660000	Air-core inductor E2-0.35*1.6*6TR	1	L114	B5B
519	3231351660000	Air-core inductor E2-0.35*1.6*6TR	1	L119	B4B
520	3231351670000	Air-core inductor E2-0.35*1.6*7TR	1	L113	B5B
521	3231351680000	Air-core inductor E2-0.35*1.6*8TR	1	L109	B4D
522	3231351680000	Air-core inductor E2-0.35*1.6*8TR	1	L116	B4B
523	3244599189000	Transmission coil 4BLH (020984189)	1	T201	B3E
524	3244599189000	Transmission coil 4BLH (020984189)	1	T202	B2E
525	3303010500190	Switching diode 1SS373(TPH3.F)	1	D502	T1I
526	3303010500190	Switching diode 1SS373(TPH3.F)	1	D503	T2H
527	3303020100020	Switching diode MA2S11100L	1	D306	B5G
528	3303020100020	Switching diode MA2S11100L	1	D311	B5I
529	3303020100020	Switching diode MA2S11100L	1	D504	T4K
530	3303020100060	Switching diode MA3J74200L	1	D410	B4J
531	3303020100070	Switching diode MA2Z07700L	1	D102	B4C
532	3303020100080	Switching diode MA2S07700L	1	D101	B3F
533	3303020100080	Switching diode MA2S07700L	1	D103	B4B
534	3303020100080	Switching diode MA2S07700L	1	D104	B4B
535	3303020100080	Switching diode MA2S07700L	1	D201	B3F
536	3303030100010	Switching diode DAN222(TL)	1	D202	B1H
537	3303030100010	Switching diode DAN222(TL)	1	D203	B1H
538	3303030300000	Schottky barrier diode RB706F-40	1	D402	B4K
539	3303030300000	Schottky barrier diode RB706F-40	1	D406	T1F
540	3304040200000	Varactor BB179 SOD523	1	D305	B3G
541	3304060300000	Varactor HVC375BTRF-E	1	D307	B5H
542	3304060300000	Varactor HVC375BTRF-E	1	D308	B5G
543	3304060300000	Varactor HVC375BTRF-E	1	D309	B5H
544	3304060300000	Varactor HVC375BTRF-E	1	D310	B5H
545	3304060300010	Varactor HVC376BTRF-E	1	D301	B3H
546	3304060300010	Varactor HVC376BTRF-E	1	D302	B3H
547	3304060300010	Varactor HVC376BTRF-E	1	D303	B3H
548	3304060300010	Varactor HVC376BTRF-E	1	D304	B3H
549	3304060300040	Varactor HVC362TRF-E	1	D206	B3D
550	3304060300040	Varactor HVC362TRF-E	1	D207	B3C
551	3304060300040	Varactor HVC362TRF-E	1	D208	B3C
552	3304060300040	Varactor HVC362TRF-E	1	D209	B3B
553	3304060300040	Varactor HVC362TRF-E	1	D210	B3B
554	3307110100080	LED KPT-1608SGC	1	D506	T2B
555	3307110100070	LED KPT-1608SRC	1	D505	T1A
556	3399990000080	Zener diode EDZTE616.8B	1	ZD101	T4F
557	3399990000080	Zener diode EDZTE616.8B	1	ZD401	T1C
558	3399990000080	Zener diode EDZTE616.8B	1	ZD402	T1D
559	3399990000080	Zener diode EDZTE616.8B	1	ZD404	T2C
560	3399990000080	Zener diode EDZTE616.8B	1	ZD405	T1C
561	3399990000080	Zener diode EDZTE616.8B	1	ZD407	T2D
562	3401002000290	Transistor 2SC4116-GR	1	Q401	B3K
563	3401002000990	Transistor 2SC5108-Y	1	Q101	B4F
564	3401002000990	Transistor 2SC5108-Y	1	Q111	B3G
565	3401002000990	Transistor 2SC5108-Y	1	Q204	B1G
566	3401002000990	Transistor 2SC5108-Y	1	Q301	B4I
567	3401002000990	Transistor 2SC5108-Y	1	Q304	B4G
568	3401002000990	Transistor 2SC5108-Y	1	Q308	B2I

No.	Material No.	Description	Qty.	Ref No.	Print No.
569	3403003000060	Transistor 2SC4617TLS	1	Q306	B5G
570	3403007000000	Transistor DTA114EE(TL)	1	Q205	T1H
571	3403007000000	Transistor DTA114EE(TL)	1	Q406	T1H
572	3403007000070	Transistor DTA144EE	1	Q110	T4F
573	3403007000070	Transistor DTA144EE	1	Q201	B1F
574	3403008000010	Transistor DTC114EE(TL)	1	Q108	T4F
575	3403008000010	Transistor DTC114EE(TL)	1	Q109	T4F
576	3403008000010	Transistor DTC114EE(TL)	1	Q407	T1H
577	3403008000010	Transistor DTC114EE(TL)	1	Q506	T1B
578	3403008000010	Transistor DTC114EE(TL)	1	Q507	T1B
579	3403008000030	Transistor DTC114TE	1	Q105	B5F
580	3403008000070	Transistor DTC144EE(TL)	1	Q405	T3E
581	3403008000070	Transistor DTC144EE(TL)	1	Q501	T4K
582	3403008000070	Transistor DTC144EE(TL)	1	Q505	T2I
583	3406001000090	Transistor 2SC4988FRTR-E	1	Q102	B4E
584	3408002000000	Transistor 2SC3356-R-A	1	Q206	B1E
585	3410001000020	Transistor 2SA1745	1	Q502	T2G
586	3418001000010	Transistor AT-41511-TR1G	1	Q207	B2B
587	3499000000140	Transistor 2SK508-K52-T1B-A	1	Q302	B4H
588	3499000000140	Transistor 2SK508-K52-T1B-A	1	Q307	B4H
589	3499000000150	Transistor UMC4(NTR)	1	Q305	B4G
590	3499000000180	Transistor UFMMT717	1	Q403	T2E
591	3503010000010	FET 2SJ243-T1-A	1	Q303	B4G
592	3503010000010	FET 2SJ243-T1-A	1	Q503	T1I
593	3503010000010	FET 2SJ243-T1-A	1	Q504	T1I
594	3503020000030	FET 2SK1824-T1-A	1	Q107	T4F
595	3503020000030	FET 2SK1824-T1-A	1	Q404	T2F
596	3503020000030	FET 2SK1824-T1-A	1	Q409	B3J
597	3603002005440	IF processing ICTA31136FNG	1	IC204	B2G
598	3604025004350	PLL ADF4111BRUZ 1.2G	1	IC301	B4I
599	3605002057290	Operational amplifier TC75W51FU	1	IC402	T1E
600	3605002057290	Operational amplifier TC75W51FU	1	IC404	B2I
601	3605002057290	Operational amplifier TC75W51FU	1	IC405	B4K
602	3605002057290	Operational amplifier TC75W51FU	1	IC407	T1J
603	3605008005070	Operational amplifier NJM2904V	1	IC101	T4E
604	3605017005540	Operational amplifier 1.7V TDA2822D	1	IC401	T2E
605	3608015000000	Power management IC(voltage regulator) XC6201P5	1	IC502	T2B
606	3608015000000	Power management IC(voltage regulator) XC6201P5	1	IC504	T3H
607	3608020005750	Power management IC TK11250CM-G	1	IC503	T1I
608	3610045000010	SCM M30624FGPGP#U5C	1	IC506	T3J
609	3613034001060	Baseband processing IC AK2346-E2	1	IC408	B2J
610	3613034001060	Baseband processing IC AK2346-E2	1	IC409	T3G
611	3619006005220	Low voltage detecting IC R3111N451C-TR	1	IC505	T4K
612	3702368630020	Crystal 3.6864MHz DSX151G	1	X402	B1J
613	3801045030170	Ceramic filter 450KHz±4.5KHz	1	CF202	B1I
614	3802499540070	Crystal filter 49.95MHz ±7.5k	1	XF203	B1F
615	4301080000020	Momentary contact switch	1	K503	T4A
616	3001063320000	Chip resistor 0603 3.3KΩ J	1	R116	B5E
617	3001063320000	Chip resistor 0603 3.3KΩ J	1	RE35	B5F
618	3502010000390	FET 2SK3475	1	Q103	B3E
619	3502010000490	FET 2SK3476	1	Q104	B4D
620	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C220	B2G

No.	Material No.	Description	Qty.	Ref No.	Print No.
621	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C316	B5G
622	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C342	B3I
623	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C412	T2B
624	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C418	T2F
625	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C519	T1I
626	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C526	T5J
627	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C536	T3H
628	3101051000020	Chip capacitor 0402 10PF J 50V	1	C157	B3G
629	3101051000020	Chip capacitor 0402 10PF J 50V	1	C246	B2D
630	3101051000020	Chip capacitor 0402 10PF J 50V	1	C265	B3B
631	3101051000020	Chip capacitor 0402 10PF J 50V	1	C302	B4I
632	3101051000020	Chip capacitor 0402 10PF J 50V	1	C303	B3I
633	3101051000020	Chip capacitor 0402 10PF J 50V	1	C330	B3J
634	3101051000020	Chip capacitor 0402 10PF J 50V	1	C335	B3J
635	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C109	B3F
636	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C112	B4E
637	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C122	B4C
638	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C159	B3G
639	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C206	B1H
640	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C208	B1H
641	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C213	B2G
642	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C214	B1H
643	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C215	B2H
644	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C224	B2F
645	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C227	T1G
646	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C229	B1G
647	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C231	T1H
648	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C257	B2B
649	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C261	B3C
650	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C334	B4J
651	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C337	B5J
652	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C338	B5I
653	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C345	B2I
654	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C356	B4G
655	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C404	T1E
656	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C405	T1E
657	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C416	T1E
658	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C417	T2E
659	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C432	B3J
660	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C458	B1K
661	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C463	T1J
662	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C469	B2J
663	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C484	B3K
664	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C523	T1J
665	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C601	T2E
666	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C609	T1F
667	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C635	T3G
668	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C113	B4E
669	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C403	T1E
670	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C425	B3J
671	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C467	B2I
672	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C490	T1H

No.	Material No.	Description	Qty.	Ref No.	Print No.
673	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C491	B3J
674	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C495	T1H
675	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C496	T2D
676	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C525	T4K
677	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C531	T2G
678	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C532	T2H
679	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C559	T2G
680	3101052220010	Chip capacitor 0402 2200pF K 5	1	C447	B4K
681	3101052220010	Chip capacitor 0402 2200pF K 5	1	C480	B3K
682	3101055620010	Chip capacitor 0402 5600PF K 2	1	C460	T1J
683	3101061000000	Chip capacitor 0603 10PF J 50V	1	C130	B4C
684	3101061000000	Chip capacitor 0603 10PF J 50V	1	C137	B4B
685	3101061000000	Chip capacitor 0603 10PF J 50V	1	C142	B4B
686	3101061000000	Chip capacitor 0603 10PF J 50V	1	C320	B4G
687	3609030005620	Exclusive IC HSMS-2827-TR1G	1	IC202	B3E
688	3701016850010	TCXO 16.8MHz 5V D	1	X301	B3I
689	3101102260010	Chip capacitor1206 22uF	1	C415	T1F
690	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C150	T4F
691	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C336	B5J
692	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C344	B3I
693	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C452	B4K
694	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C464	T1K
695	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C483	B2I
696	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C487	B2K
697	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C530	T3B
698	3104071040010	Tantalum capacitor 0805 0.1UF M 20V	1	C326	B4I
699	3104071050010	Tantalum capacitor 0805 1UF M 16V	1	C354	B3G
700	3104071050010	Tantalum capacitor 0805 1UF M 16V	1	C478	B3K
701	3104071050010	Tantalum capacitor 0805 1UF M 16V	1	C479	B3K
702	3104071050010	Tantalum capacitor 0805 1UF M 16V	1	C630	T4G
703	3104071050010	Tantalum capacitor 0805 1UF M 16V	1	C631	T4G
704	3701098340010	Crystal 9.8304MHz	1	X501	T3K
705	3612031004420	Memory AT24C256N-10SU-2	1	IC501	T2K
706	3213212222000	Multi-layer inductor 1008 2.2uH	1	L108	B4C
707	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R532	T3I
708	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R533	T3I
709	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE1	T3B
710	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE10	T1D
711	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE11	T1C
712	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE12	T1D
713	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE13	T2D
714	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE14	T2B
715	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE15	T2C
716	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE2	T2B
717	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE22	T5E
718	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE3	T2B
719	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE31	T2F
720	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE32	T2F
721	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE33	T3F
722	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE34	T4B
723	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE4	T3B
724	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE5	T4H

No.	Material No.	Description	Qty.	Ref No.	Print No.
725	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE6	T4H
726	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE7	T4H
727	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE8	T4B
728	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE9	T1D
729	3001082010000	Chip resistor 1206 200Ω J 1/4	1	RE16	T1A
730	3001082410000	Chip resistor 1206 240Ω J 1/4	1	RE17	T1B
731	3001061540010	Chip resistor 0603 150KΩ D	1	R136	T4E
732	3001061540010	Chip resistor 0603 150KΩ D	1	R137	T4E
733	3001061540010	Chip resistor 0603 150KΩ D	1	RE29	T3D
734	3001061540010	Chip resistor 0603 150KΩ D	1	RE30	T3C
735	5202004200010	FFC/FPC connector 9632S-04E	1	J504	T4H
736	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R525	T3B
737	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R526	T3B
738	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R527	T3B
739	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R528	T3B
740	3104071560020	Tantalum capacitor 0805 15UF M 6.3V	1	C637	T3G
741	3101051530010	Chip capacitor 0402 0.015UF K	1	C424	B2J
742	3101051530010	Chip capacitor 0402 0.015UF K	1	C493	B2J
743	3101061020040	Chip capacitor 0603 1000PF J 5	1	CE7	B4F
744	3101061020040	Chip capacitor 0603 1000PF J 5	1	CE8	B3E
745	3101081020000	Chip capacitor 1206 1000PF K 6	1	C517	B2A
746	3001068230010	Chip resistor 0603 82KΩ J 1/1	1	R143	T4F
747	4002000000180	Chip fuse 0603-FF 0.25A-3	1	FE1	T2A
748	4016000000000	Chip fuse0603-FF 0.5A-32V	1	FE3	T2C
749	4016000000000	Chip fuse0603-FF 0.5A-32V	1	FE5	T2F
750	4016000000010	Chip fuse0603-FF 2.0A-32V	1	FE4	T3C
751	3008163390000	Chip film resistor 2010 3.3Ω 5%	1	RE18	T2A
752	3008113990000	Chip film resistor 2512 3.9Ω 5%	1	RE19	T2B
753	3008111290000	Chip film resistor 2512 1.2Ω 5%	1	RE20	T2C
754	3001082710000	Chip resistor1206 270Ω 5% 0.2	1	RE24	B3C
755	3001082710000	Chip resistor1206 270Ω 5% 0.2	1	RE25	B3C
756	3101082260000	Chip capacitor 1206 22UF ±20%	1	CE1	T2C
757	3101082260000	Chip capacitor 1206 22UF ±20%	1	CE2	T3C
758	3101082260000	Chip capacitor 1206 22UF ±20%	1	CE5	T1D
759	3101082260000	Chip capacitor 1206 22UF ±20%	1	CE6	T1C
760	3303990000000	Schottky barrier diode LL103A	1	DE4	T3B
761	3303990000000	Schottky barrier diode LL103A	1	DE5	T3B
762	3303990000000	Schottky barrier diode LL103A	1	DE6	T4B
763	3302040300040	Zener diode BZX84－C2V4	1	DE1	B5E
764	3302040300040	Zener diode BZX84－C2V4	1	DE2	B5E
765	3302040300040	Zener diode BZX84－C2V4	1	DE3	B5F
766	3001113380000	Chip resistor 2512 0.33Ω 1% 2	1	RE26	T4C
767	3001113380000	Chip resistor 2512 0.33Ω 1% 2	1	RE27	T4C
768	3001080000000	Chip resistor 1206 0Ω J 1/4W	1	R455	T1D
769	3001052040000	Chip resistor 0402 200KΩ J	1	R521	T2H

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No.	Material No.	Description	Qty.	Ref. No.	Print No.
1	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	C488	B3K
2	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	L201	B2F
3	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	L202	B2F
4	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R147	T4F
5	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R202	B3F
6	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R233	B2D
7	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R236	B2B
8	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R254	T1G
9	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R315	B4I
10	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R319	B4I
11	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R402	T1F
12	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R404	B3K
13	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R406	B2J
14	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R424	B2J
15	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R444	B2I
16	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R453	B3K
17	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R457	B3K
18	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R495	B3J
19	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R497	T1H
20	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R504	T5J
21	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R510	T3K
22	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R519	T1I
23	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R152	B3G
24	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R214	B2G
25	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R344	B2I
26	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R348	B4J
27	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R349	B5I
28	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R350	B5I
29	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R456	T2E
30	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R222	B1G
31	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R223	B1E
32	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R305	B4G
33	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R308	B4G
34	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R346	B2I
35	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R434	T2A
36	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R454	T1D
37	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R228	B1E
38	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R301	B4I
39	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R311	B4G
40	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R352	B5I
41	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R400	T1G
42	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R405	B3K
43	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R466	T1J
44	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R468	T2C
45	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R512	T4I
46	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R522	T2H
47	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R534	T3I
48	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R550	T2J
49	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R551	T4J
50	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R553	T2I

No.	Material No.	Description	Qty.	Ref. No.	Print No.
51	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R555	T4J
52	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R560	T2I
53	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R563	T1I
54	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R565	T3K
55	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R566	T3K
56	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R117	B5E
57	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R141	T4E
58	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R201	B2F
59	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R321	B4J
60	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R336	B5J
61	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R347	B4I
62	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R407	B3K
63	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R418	T3F
64	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R426	B3K
65	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R432	T1J
66	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R442	B3K
67	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R461	T1K
68	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R463	T1J
69	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R467	T1J
70	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R471	B2K
71	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R476	B2K
72	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R480	B3K
73	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R482*	B3J
74	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R487	B4J
75	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R489	B4J
76	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R508	T2J
77	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R517	T4K
78	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R630	T2G
79	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R631	T3G
80	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R632	T3G
81	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R218	T1H
82	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R234	B2D
83	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R235	B2D
84	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R240	B3B
85	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R241	B2D
86	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R242	B3B
87	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R310	B4G
88	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R403	T1F
89	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R428	B2J
90	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R429	T1J
91	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R430	T1J
92	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R448	B4K
93	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R475	B2K
94	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R486	T1H
95	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R493	B3J
96	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R516	T4K
97	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R557	T2I
98	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R142	T3E
99	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R408	T1E
100	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R462	T1K
101	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R474	B2J
102	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R634	T2G

No.	Material No.	Description	Qty.	Ref. No.	Print No.
103	3001051230000	Chip resistor 0402 12KΩ J 1/1	1	R238	B3B
104	3001051240000	Chip resistor 0402 120KΩ J 1/	1	R339	B3I
105	3001051510000	Chip resistor 0402 150Ω J 1/1	1	R304	B4H
106	3001051520000	Chip resistor 0402 1.5KΩ J 1/	1	R106	B4F
107	3001051520000	Chip resistor 0402 1.5KΩ J 1/	1	R203	B1G
108	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R409	B3J
109	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R440	T1E
110	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R460	B3K
111	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R469	T1H
112	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R498	B2J
113	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R136	T4E
114	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R137	T4E
115	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R138	T4F
116	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R139	T4F
117	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R351	B5I
118	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R302	B3I
119	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R464	T1K
120	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R465	T1K
121	3001051800000	Chip resistor 0402 18Ω J 1/16	1	R231	B2E
122	3001051810010	Chip resistor 0402 180Ω J 1/1	1	R314	B5G
123	3001051820000	Chip resistor 0402 1.8KΩ J 1/	1	R217	B1G
124	3001051820000	Chip resistor 0402 1.8KΩ J 1/	1	R416	T2B
125	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R421	B2I
126	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R422	B2I
127	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R438	T1E
128	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R451	B4K
129	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R452	B4K
130	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R337	B3I
131	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R425	T1E
132	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R446	B4J
133	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R447	B4J
134	3001052200000	Chip resistor 0402 22Ω J 1/16	1	R104	B4F
135	3001052200000	Chip resistor 0402 22Ω J 1/16	1	R107	B4E
136	3001052210000	Chip resistor 0402 220Ω J 1/1	1	R225	B1E
137	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R144	T4F
138	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R229	B1E
139	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R420	T3E
140	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R204	B1H
141	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R206	B1H
142	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R207	B1H
143	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R208	B1H
144	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R431	T1J
145	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R433	T1J
146	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R445	B4J
147	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R458	B3J
148	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R494	B2J
149	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R499	T1E
150	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R345	B2I
151	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R439	B2I
152	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R548	T3B
153	3001052700000	Chip resistor 0402 27Ω J 1/16	1	R226	B1E
154	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R150	B3G

No.	Material No.	Description	Qty.	Ref. No.	Print No.
155	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R230	B2E
156	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R232	B2E
157	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R316	B4I
158	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R112	B4E
159	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R211	B2F
160	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R219	B1G
161	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R317	B4I
162	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R401	T1E
163	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R478	B2K
164	3001052790000	Chip resistor 0402 2.7Ω J 1/1	1	R309	B4G
165	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R103	B4F
166	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R108	B4E
167	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R101	B3F
168	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R118	B3G
169	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R148	B3G
170	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R151	B3G
171	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R216	T1G
172	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R419	B2I
173	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R437*	B3J
174	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R443	B2I
175	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R477	B2K
176	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R307	B4G
177	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R481	B3K
178	3001053910000	Chip resistor 0402 390Ω J 1/1	1	R123	B5E
179	3001053930000	Chip resistor 0402 39KΩ J 1/1	1	R146*	T4F
180	3001053930000	Chip resistor 0402 39KΩ J 1/1	1	R484	B3I
181	3001053940000	Chip resistor 0402 390KΩ J 1/	1	R449	B4K
182	3001053940000	Chip resistor 0402 390KΩ J 1/	1	R492	B3J
183	3001053940000	Chip resistor 0402 390KΩ J 1/	1	R523	T2H
184	3001054320000	Chip resistor 0402 4.3KΩ J 1/	1	R237	B3C
185	3001054700000	Chip resistor 0402 47Ω J 1/16	1	R111	B4E
186	3001054710000	Chip resistor 0402 470Ω J 1/1	1	R415	T2B
187	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R205	B1H
188	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R209	B1H
189	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R213	B2G
190	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R312	B5G
191	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R320	B4I
192	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R459	T1J
193	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R485	B3J
194	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R490	B4K
195	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R496	T1H
196	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R520	T2G
197	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R102	B4F
198	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R113	B4E
199	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R145	T4F
200	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R215	T1H
201	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R313	B3G
202	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R414	T3E
203	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R488	B4J
204	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R502	T2K
205	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R506	T5J
206	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R507	T2J

No.	Material No.	Description	Qty.	Ref. No.	Print No.
207	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R515	T1I
208	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R535	T5J
209	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R536	T5J
210	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R538	T5J
211	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R539	T4H
212	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R549	T2G
213	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R556	T2I
214	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R558	T3K
215	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R561	T3K
216	3001054790000	Chip resistor 0402 4.7Ω J 1/1	1	R411	T1E
217	3001054790000	Chip resistor 0402 4.7Ω J 1/1	1	R412	T2E
218	3001055110000	Chip resistor 0402 510Ω J 1/1	1	R251	B3C
219	3001055130010	Chip resistor 0402 51KΩ J 1/1	1	R479	B3K
220	3001055620000	Chip resistor 0402 5.6KΩ J 1/	1	R149	B3G
221	3001055630000	Chip resistor 0402 56KΩ J 1/1	1	R472	B2K
222	3001055630000	Chip resistor 0402 56KΩ J 1/1	1	R473	B2K
223	3001056810000	Chip resistor 0402 680Ω J 1/1	1	R105	B4F
224	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R227	B1E
225	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R239	B2B
226	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R410	T1E
227	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R427	B3J
228	3001056830000	Chip resistor 0402 68KΩ J 1/1	1	R322*	B3G
229	3001056830000	Chip resistor 0402 68KΩ J 1/1	1	R470	B3K
230	3001056840000	Chip resistor 0402 680KΩ J 1/	1	R220	B1G
231	3001058220000	Chip resistor 0402 8.2KΩ J 1/	1	R483*	B3J
232	3001058220000	Chip resistor 0402 8.2KΩ J 1/	1	R601	T1G
233	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R212	B2G
234	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R252	B2G
235	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R441	B2I
236	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R450	B4K
237	3001059130000	Chip resistor 0402 91KΩ F 1/1	1	R338	B3I
238	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	L107*	B4E
239	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R110	B3E
240	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R109	B3F
241	3001063930010	Chip resistor 0603 39KΩ J 1/1	1	R116	B5E
242	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R115	B5E
243	3001068230010	Chip resistor 0603 82KΩ J 1/1	1	R143*	T4F
244	3001070000000	Chip resistor 0805 0Ω J 1/8W(	1	R114*	B4E
245	3001070000000	Chip resistor 0805 0Ω J 1/8W(	1	R120	B4C
246	3003992220000	Thermistor 0603 2.2KΩ J 10	1	TH301	B3I
247	3003994730000	Thermistor 0603 47KΩ J 100	1	TH101	B5D
248	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP505	T2J
249	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP518	T3I
250	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP519	T3I
251	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP525	T4I
252	3005051020010	Resistor array 0402 1K*4 J 1/16	1	CP526	T4J
253	3101050300000	Chip capacitor 0402 3PF B 50V	1	C302	B4I
254	3101050400010	Chip capacitor 0402 4PF B 50V	1	C144	B4B
255	3101050400010	Chip capacitor 0402 4PF B 50V	1	C233	B1F
256	3101050400010	Chip capacitor 0402 4PF B 50V	1	C245*	B2D
257	3101050400010	Chip capacitor 0402 4PF B 50V	1	C257*	B3B
258	3101050500010	Chip capacitor 0402 5PF B 50V	1	C255*	B3B

No.	Material No.	Description	Qty.	Ref. No.	Print No.
259	3101050500010	Chip capacitor 0402 5PF B 50V	1	C268*	B1E
260	3101050500010	Chip capacitor 0402 5PF B 50V	1	C360	B4I
261	3101050500010	Chip capacitor 0402 5PF B 50V	1	C361	B4I
262	3101050600010	Chip capacitor 0402 6PF B 50V	1	C157	B3G
263	3101050700010	Chip capacitor 0402 7PF B 50V	1	C105*	B4F
264	3101050700010	Chip capacitor 0402 7PF B 50V	1	C247*	B2D
265	3101050900000	Chip capacitor 0402 9PF B 50V	1	C244*	B2D
266	3101050900000	Chip capacitor 0402 9PF B 50V	1	C248*	B2D
267	3101051010030	Chip capacitor 0402 100PF J 50	1	C152	T4E
268	3101051010030	Chip capacitor 0402 100PF J 50	1	C252	B3C
269	3101051010030	Chip capacitor 0402 100PF J 50	1	C253	B2C
270	3101051010030	Chip capacitor 0402 100PF J 50	1	C258	B3B
271	3101051010030	Chip capacitor 0402 100PF J 50	1	C265	B3C
272	3101051010030	Chip capacitor 0402 100PF J 50	1	C329	B4I
273	3101051010030	Chip capacitor 0402 100PF J 50	1	C339	B5J
274	3101051010030	Chip capacitor 0402 100PF J 50	1	C340	B5J
275	3101051010030	Chip capacitor 0402 100PF J 50	1	C341	B5J
276	3101051010030	Chip capacitor 0402 100PF J 50	1	C605	T2C
277	3101051010030	Chip capacitor 0402 100PF J 50	1	C607	T2D
278	3101051020010	Chip capacitor 0402 1000PF K 5	1	C114	B4E
279	3101051020010	Chip capacitor 0402 1000PF K 5	1	C118	B5E
280	3101051020010	Chip capacitor 0402 1000PF K 5	1	C210	B2G
281	3101051020010	Chip capacitor 0402 1000PF K 5	1	C238	B1E
282	3101051020010	Chip capacitor 0402 1000PF K 5	1	C304	B4H
283	3101051020010	Chip capacitor 0402 1000PF K 5	1	C318	B5G
284	3101051020010	Chip capacitor 0402 1000PF K 5	1	C324	B4G
285	3101051020010	Chip capacitor 0402 1000PF K 5	1	C331	B4J
286	3101051020010	Chip capacitor 0402 1000PF K 5	1	C332	B4J
287	3101051020010	Chip capacitor 0402 1000PF K 5	1	C347	B2I
288	3101051020010	Chip capacitor 0402 1000PF K 5	1	C406	T1E
289	3101051020010	Chip capacitor 0402 1000PF K 5	1	C409	B2J
290	3101051020010	Chip capacitor 0402 1000PF K 5	1	C430	B3J
291	3101051020010	Chip capacitor 0402 1000PF K 5	1	C462	T1J
292	3101051020010	Chip capacitor 0402 1000PF K 5	1	C497	B5K
293	3101051020010	Chip capacitor 0402 1000PF K 5	1	C512	T2K
294	3101051020010	Chip capacitor 0402 1000PF K 5	1	C538	T5J
295	3101051020010	Chip capacitor 0402 1000PF K 5	1	C546	T3K
296	3101051020010	Chip capacitor 0402 1000PF K 5	1	C558	T3B
297	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C121	B4C
298	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C147	B3D
299	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C219	B2G
300	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C226	T1G
301	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C230	B1G
302	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C236	B1E
303	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C237	B1E
304	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C239	B1E
305	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C241	B2E
306	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C246	B3D
307	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C348	B2I
308	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C357	B3G
309	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C419	T2F
310	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C450	B4K

No.	Material No.	Description	Qty.	Ref. No.	Print No.
311	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C461	T1J
312	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C465	T1K
313	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C486	B4K
314	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C539	T3A
315	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C540	T3A
316	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C541	T3A
317	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C542	T3A
318	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C545	T3I
319	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C608	T1F
320	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C636	T2G
321	3101051200020	Chip capacitor 0402 12PF J 50V	1	C256*	B3B
322	3101051200020	Chip capacitor 0402 12PF J 50V	1	C259*	B3B
323	3101051230000	Chip capacitor 0402 0.012UF K	1	C448	B4J
324	3101051500020	Chip capacitor 0402 15PF J 50V	1	C514	T4K
325	3101051510000	Chip capacitor 0402 150PF(±5%)	1	C473	B2K
326	3101051820000	Chip capacitor 0402 1800PF K 5	1	C222	T1G
327	3101051830000	Chip capacitor 0402 0.018UF K	1	C421	B2J
328	3101051830000	Chip capacitor 0402 0.018UF K	1	C492	B2J
329	3101052200010	Chip capacitor 0402 22PF J 50V	1	C100	B3G
330	3101052200010	Chip capacitor 0402 22PF J 50V	1	C471	B1J
331	3101052200010	Chip capacitor 0402 22PF J 50V	1	C472	B1K
332	3101052210010	Chip capacitor 0402 220PF K 50	1	C451	B4K
333	3101052210010	Chip capacitor 0402 220PF K 50	1	C602	T1C
334	3101052210010	Chip capacitor 0402 220PF K 50	1	C603	T1D
335	3101052230000	Chip capacitor 0402 0.022UF K	1	C401	T1F
336	3101052240010	Chip capacitor 0402 0.22UF Z 1	1	C407	T1F
337	3101052700000	Chip capacitor 0402 27PF J 50V	1	C515	T3K
338	3101052700000	Chip capacitor 0402 27PF J 50V	1	C516	T4K
339	3101052730000	Chip capacitor 0402 0.027UF K	1	C474	B2K
340	3101053300000	Chip capacitor 0402 33PF J 50V	1	C228	B1G
341	3101053300000	Chip capacitor 0402 33PF J 50V	1	C476	B2K
342	3101053300000	Chip capacitor 0402 33PF J 50V	1	C481	B3K
343	3101053300000	Chip capacitor 0402 33PF J 50V	1	C634	T3G
344	3101053900000	Chip capacitor 0402 39PF J 50V	1	C211*	B2G
345	3101053930000	Chip capacitor 0402 0.039UF K	1	C449	B4K
346	3101054700010	Chip capacitor 0402 47PF J 50V	1	C402	T1E
347	3101054700010	Chip capacitor 0402 47PF J 50V	1	C408	B3K
348	3101054700010	Chip capacitor 0402 47PF J 50V	1	C420	T1E
349	3101054700010	Chip capacitor 0402 47PF J 50V	1	C444	B2I
350	3101054710010	Chip capacitor 0402 470PF K 50	1	C101	B3F
351	3101054710010	Chip capacitor 0402 470PF K 50	1	C104	B4F
352	3101054710010	Chip capacitor 0402 470PF K 50	1	C106	B4E
353	3101054710010	Chip capacitor 0402 470PF K 50	1	C107	B4E
354	3101054710010	Chip capacitor 0402 470PF K 50	1	C108	B4F
355	3101054710010	Chip capacitor 0402 470PF K 50	1	C113	B4E
356	3101054710010	Chip capacitor 0402 470PF K 50	1	C115	B3D
357	3101054710010	Chip capacitor 0402 470PF K 50	1	C120	B4C
358	3101054710010	Chip capacitor 0402 470PF K 50	1	C124	B4D
359	3101054710010	Chip capacitor 0402 470PF K 50	1	C132	T4E
360	3101054710010	Chip capacitor 0402 470PF K 50	1	C133	B4C
361	3101054710010	Chip capacitor 0402 470PF K 50	1	C145	B5F
362	3101054710010	Chip capacitor 0402 470PF K 50	1	C148	B3D

No.	Material No.	Description	Qty.	Ref. No.	Print No.
363	3101054710010	Chip capacitor 0402 470PF K 50	1	C149	T3C
364	3101054710010	Chip capacitor 0402 470PF K 50	1	C153	T3E
365	3101054710010	Chip capacitor 0402 470PF K 50	1	C154	T3E
366	3101054710010	Chip capacitor 0402 470PF K 50	1	C155	B3G
367	3101054710010	Chip capacitor 0402 470PF K 50	1	C156	B3G
368	3101054710010	Chip capacitor 0402 470PF K 50	1	C158	B3G
369	3101054710010	Chip capacitor 0402 470PF K 50	1	C201	B2F
370	3101054710010	Chip capacitor 0402 470PF K 50	1	C205	B2F
371	3101054710010	Chip capacitor 0402 470PF K 50	1	C209	B2G
372	3101054710010	Chip capacitor 0402 470PF K 50	1	C212	B2G
373	3101054710010	Chip capacitor 0402 470PF K 50	1	C301	B4I
374	3101054710010	Chip capacitor 0402 470PF K 50	1	C311	B4G
375	3101054710010	Chip capacitor 0402 470PF K 50	1	C314	B4G
376	3101054710010	Chip capacitor 0402 470PF K 50	1	C315	B5G
377	3101054710010	Chip capacitor 0402 470PF K 50	1	C317	B5G
378	3101054710010	Chip capacitor 0402 470PF K 50	1	C343	B3I
379	3101054710010	Chip capacitor 0402 470PF K 50	1	C358	B4I
380	3101054710010	Chip capacitor 0402 470PF K 50	1	C362	B5I
381	3101054710010	Chip capacitor 0402 470PF K 50	1	C413	T1E
382	3101054710010	Chip capacitor 0402 470PF K 50	1	C423	T1E
383	3101054710010	Chip capacitor 0402 470PF K 50	1	C426	B3K
384	3101054710010	Chip capacitor 0402 470PF K 50	1	C498	T1B
385	3101054710010	Chip capacitor 0402 470PF K 50	1	C499	T1D
386	3101054710010	Chip capacitor 0402 470PF K 50	1	C518	T2A
387	3101054710010	Chip capacitor 0402 470PF K 50	1	C521	T1I
388	3101054710010	Chip capacitor 0402 470PF K 50	1	C522	T1J
389	3101054710010	Chip capacitor 0402 470PF K 50	1	C524	T1I
390	3101054710010	Chip capacitor 0402 470PF K 50	1	C527	T4K
391	3101054710010	Chip capacitor 0402 470PF K 50	1	C528	T3B
392	3101054710010	Chip capacitor 0402 470PF K 50	1	C529	T3B
393	3101054710010	Chip capacitor 0402 470PF K 50	1	C533	T2H
394	3101054710010	Chip capacitor 0402 470PF K 50	1	C535	T2H
395	3101054710010	Chip capacitor 0402 470PF K 50	1	C537	T3H
396	3101054710010	Chip capacitor 0402 470PF K 50	1	C610	T1G
397	3101054720000	Chip capacitor 0402 4700PF K 5	1	C485	B4J
398	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C410	B3K
399	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C475	B2K
400	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C633	T2G
401	3101055610000	Chip capacitor 0402 560PF K 50	1	C477	B2K
402	3101055610000	Chip capacitor 0402 560PF K 50	1	C632	T3G
403	3101056830000	Chip capacitor 0402 0.068UF K	1	C446	B4J
404	3101057590000	Chip capacitor 0402 7.5PF(±0.1	1	C243	B2D
405	3101058200000	Chip capacitor 0402 82PF J 50V	1	C225	B1G
406	3101058200000	Chip capacitor 0402 82PF J 50V	1	C240	B1E
407	3101058200000	Chip capacitor 0402 82PF J 50V	1	C163	B5C
408	3101058200000	Chip capacitor 0402 82PF J 50V	1	C137	B4B
409	3101058200000	Chip capacitor 0402 82PF J 50V	1	C141	B4B
410	3101060300010	Chip capacitor 0603 3PF B 50V	1	C136*	B4B
411	3101060300010	Chip capacitor 0603 3PF B 50V	1	C142*	B4B
412	3101060400010	Chip capacitor 0603 4PF B 50V	1	C140*	B4B
413	3101064590010	Chip capacitor 0603 4.5PF C 50	1	C321*	B4H
414	3101064590010	Chip capacitor 0603 4.5PF C 50	1	C322*	B4H

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415	3101060500010	Chip capacitor 0603 5PF B 50V	1	C310*	B4H
416	3101060500010	Chip capacitor 0603 5PF B 50V	1	C320	B5H
417	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C307	B3G
418	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C312	B4G
419	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C325	B4G
420	3101060600010	Chip capacitor 0603 6PF B 50V	1	C134	B4C
421	3101060600010	Chip capacitor 0603 6PF B 50V	1	C138*	B4B
422	3101060600010	Chip capacitor 0603 6PF B 50V	1	C313	B3G
423	3101060600010	Chip capacitor 0603 6PF B 50V	1	CE7	B4F
424	3101064790010	Chip capacitor 0603 4.7PF B 50	1	C308*	B3G
425	3101060700020	Chip capacitor 0603 7PF B 50V	1	C127*	B4C
426	3101060700020	Chip capacitor 0603 7PF B 50V	1	C130*	B4C
427	3101061010010	Chip capacitor 0603 100PF J 50	1	C131	B4C
428	3101061020000	Chip capacitor 0603 1000PF K 5	1	C117	B4E
429	3101061020000	Chip capacitor 0603 1000PF K 5	1	C349	B2H
430	3101061030010	Chip capacitor 0603 0.01UF K 2	1	R221	T1G
431	3101061050060	Chip capacitor 0603 1UF K 10V	1	C123	B4D
432	3101061050060	Chip capacitor 0603 1UF K 10V	1	C146	T3C
433	3101061050060	Chip capacitor 0603 1UF K 10V	1	C221	T1G
434	3101061050060	Chip capacitor 0603 1UF K 10V	1	C445	B2I
435	3101061050060	Chip capacitor 0603 1UF K 10V	1	C489	B3J
436	3101061050060	Chip capacitor 0603 1UF K 10V	1	C520	T1I
437	3101061510000	Chip capacitor 0603 150PF J 50	1	C319	B5H
438	3101061590010	Chip capacitor 0603 1.5PF B 50	1	C139	B4B
439	3101063900000	Chip capacitor 0603 39PF J 50V	1	C305*	B3H
440	3101063000010	Chip capacitor 0603 30PF J 50V	1	C125*	B5D
441	3101063000010	Chip capacitor 0603 30PF J 50V	1	C126*	B5C
442	3101063000010	Chip capacitor 0603 30PF J 50V	1	C352	B2H
443	3101064710000	Chip capacitor 0603 470PF K 50	1	C135	B4B
444	3101064710000	Chip capacitor 0603 470PF K 50	1	CE8	B3E
445	3101064700000	Chip capacitor 0603 47PF J 50V	1	C161*	B4D
446	3101066800000	Chip capacitor 0603 68PF J 50V	1	C351	B2H
447	3104071040010	Tantalum capacitor 0805 0.1UF M 20V	1	C326	B4I
448	3104071040010	Tantalum capacitor 0805 0.1UF M 20V	1	C328	B5I
449	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C327	B5I
450	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C354	B3G
451	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C478	B3K
452	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C479	B3K
453	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C630	T4G
454	3104071050010	Tantalum capacitor 0805 1UF M 16V T	1	C631	T4G
455	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C220	B2G
456	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C342	B3I
457	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C412	T2C
458	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C418	T2F
459	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C519	T1I
460	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C526	T4J
461	3104071060010	Tantalum capacitor 0805 10UF M 6.3V	1	C536	T3H
462	3104071560020	Tantalum capacitor 0805 15UF M 6.3V	1	C470	B2J
463	3104071560020	Tantalum capacitor 0805 15UF M 6.3V	1	C637	T3G
464	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C150	T4F
465	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C316	B5G
466	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C336	B4J

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467	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C344	B3I
468	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C452	B4K
469	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C464	T1K
470	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C483	B2I
471	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C487	B2K
472	3104074750030	Tantalum capacitor 0805 4.7UF M 10V	1	C530	T3B
473	3210106101000	Bobbin inductor 0603 100nH±2% L	1	L312	B4H
474	3210106101000	Bobbin inductor 0603 100nH±2% L	1	L321	B4G
475	3210107180000	Bobbin inductor 0805 18nH LQW2B	1	L304*	B3H
476	3210108270000	Bobbin inductor 1206 27nH LQW31	1	L310*	B4H
477	3210305150010	Multi-layer inductor 0402 15nH	1	L103*	B4F
478	3210306180000	Multi-layer inductor 0603 18nH	1	L301	B4I
479	3210306180000	Multi-layer inductor 0603 18nH	1	L322	B4I
480	3210406331000	Multi-layer inductor 0603 330nH	1	L317	B2I
481	3210406331000	Multi-layer inductor 0603 330nH	1	L318	B2H
482	3210406331000	Multi-layer inductor 0603 330nH	1	L319	B2H
483	3213212561000	Multi-layer inductor 1008 0.56uH	1	L315	B3I
484	3213306332000	Multi-layer inductor 0603 3.3uH	1	L302	B3H
485	3213306332000	Multi-layer inductor 0603 3.3uH	1	L303	B3H
486	3213306332000	Multi-layer inductor 0603 3.3uH	1	L308	B5G
487	3213306332000	Multi-layer inductor 0603 3.3uH	1	L309	B5H
488	3213306332000	Multi-layer inductor 0603 3.3uH	1	L313	B4G
489	3213306332000	Multi-layer inductor 0603 3.3uH	1	L320	B4H
490	3221507600000	Chip ferrite bead 0805 60Ω±25%	1	L110	B3D
491	3231301250000	Air-core inductor E2-0.30*1.2*5TL	1	L206*	B3D
492	3231301250000	Air-core inductor E2-0.30*1.2*5TL	1	L211	B3B
493	3231301250000	Air-core inductor E2-0.30*1.2*5TL	1	L212	B3B
494	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L114*	B5B
495	3231351680000	Air-core inductor E2-0.35*1.6*8TR	1	L109	B4D
496	3608015000000	Power management IC (voltage regulator) XC6201P5	1	IC502	T3B
497	3608015000000	Power management IC (voltage regulator) XC6201P5	1	IC504	T3H
498	3609030005620	Exclusive IC HSMS-2827-TR1G	1	IC202	B3E
499	3702368630020	Crystal 3.6864MHz DSX151G	1	X402	B1J
500	3801045030170	Ceramic filter 450KHz±4.5KHz	1	CF202	B1I
501	4301080000020	Momentary contact switch	1	K503	T4A
502	3101102260010	Chip capacitor 1206 22uF +80%/-	1	C415	T1F
503	3619006005220	Low voltage detecting IC R3111N451C-TR	1	IC505	T4K
504	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP506	T4J
505	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP507	T3K
506	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP509	T2I
507	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP511	T2J
508	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP512	T2J
509	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP514	T4J
510	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP516	T4I
511	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP517	T4K
512	3005051020000	Resistor array 0402 1K*2 J 1/16	1	CP524	T4I
513	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC301	B3H
514	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC302	B5H
515	3002996830000	Trimmer resistor(2*2) 68KΩ(+25%)	1	VR1	T2I
516	3210305330000	Multi-layer inductor 0402 33nH	1	L117	B3G
517	3214307151000	Inductor 0805 150nH(Q) C20	1	L204	B1D
518	3214307151000	Inductor 0805 150nH(Q) C20	1	L205	B2E

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519	3214307181000	Inductor 0805 180nH(Q) C20	1	L209	B2C
520	3214307220010	Inductor 0805 22nH C2012C-	1	L208*	B2C
521	3214307220010	Inductor 0805 22nH C2012C-	1	L210*	B2B
522	3210306221000	Multi-layer inductor 0603 220nH	1	L502	T4K
523	3210306221000	Multi-layer inductor 0603 220nH	1	L503	T3I
524	3210306221000	Multi-layer inductor 0603 220nH	1	L504	T4K
525	3213212102000	Multi-layer inductor 1008 1uH	1	L105	B4E
526	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L104	B4F
527	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L307	B4G
528	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L311	B3H
529	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L314	B4I
530	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L316	B4J
531	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L401	T1D
532	3221507221000	Chip ferrite bead 0805 220 Ω ±25	1	L106	B3D
533	3221507221000	Chip ferrite bead 0805 220 Ω ±25	1	L501	T2A
534	3210107221000	Bobbin inductor 0805 220nH	1	L108	B4C
535	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L112*	B4B
536	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L113*	B5B
537	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L116*	B4B
538	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L207*	B3D
539	3210306390000	Multi-layer inductor 0603 39nH	1	L305	B4G
540	3399990000080	Zener diode EDZTE616.8B	1	ZD101	T4F
541	3399990000080	Zener diode EDZTE616.8B	1	ZD401	T1C
542	3399990000080	Zener diode EDZTE616.8B	1	ZD402	T1E
543	3399990000080	Zener diode EDZTE616.8B	1	ZD404	T2C
544	3399990000080	Zener diode EDZTE616.8B	1	ZD405	T1D
545	3399990000080	Zener diode EDZTE616.8B	1	ZD407	T2D
546	3303010500190	Switching diode 1SS373(TPH3.F)	1	D502	T1I
547	3303010500190	Switching diode 1SS373(TPH3.F)	1	D503	T2H
548	3210209102010	Bobbin inductor 1210 1uH	1	L115	T4B
549	3210305180000	Multi-layer inductor 0402 18nH	1	L102*	B4F
550	3303020100020	Switching diode MA2S11100L	1	D306	B5G
551	3303020100020	Switching diode MA2S11100L	1	D311	B5I
552	3303020100020	Switching diode MA2S11100L	1	D504	T4K
553	3244599189000	Transmission coil 4BLH(020984189)	1	T201	B3E
554	3244599189000	Transmission coil 4BLH(020984189)	1	T202	B2E
555	3303030300000	Schottky barrier diode RB706F-40	1	D402	B4K
556	3303030300000	Schottky barrier diode RB706F-40	1	D406	T1F
557	3406001000090	Transistor 2SC4988FRTR-E	1	Q102	B4E
558	3408002000000	Transistor 2SC3356-R-A	1	Q206	B1E
559	3410001000020	Transistor 2SA1745	1	Q502	T2G
560	3418001000010	Transistor AT-41511-TR1G	1	Q207	B2B
561	3499000000150	Transistor UMC4(NTR)	1	Q305	B4G
562	3499000000180	Transistor UFMMT717	1	Q403	T2E
563	3307110100080	LED KPT-1608SGC	1	D506	T1A
564	3303020100060	Switching diode MA3J74200L 30V	1	D410	B4J
565	3303020100070	Switching diode MA2Z07700L	1	D102	B4C
566	3307110100070	LED KPT-1608SRC	1	D505	T1A
567	3303020100080	Switching diode MA2S07700L	1	D101	B3F
568	3303020100080	Switching diode MA2S07700L	1	D103	B4B
569	3303020100080	Switching diode MA2S07700L	1	D104	B4B
570	3303020100080	Switching diode MA2S07700L	1	D201	B3F

No.	Material No.	Description	Qty.	Ref. No.	Print No.
571	3401002000290	Transistor 2SC4116-GR	1	Q401	B3K
572	3303030100010	Switching diode DAN222(TL)	1	D202	B1H
573	3303030100010	Switching diode DAN222(TL)	1	D203	B1H
574	3399990000260	Diode HSM88ASTL-E	1	D208	B3B
575	3401002000990	Transistor 2SC5108-Y	1	Q101	B4F
576	3401002000990	Transistor 2SC5108-Y	1	Q111	B3G
577	3401002000990	Transistor 2SC5108-Y	1	Q204	B1G
578	3401002000990	Transistor 2SC5108-Y	1	Q301	B3I
579	3401002000990	Transistor 2SC5108-Y	1	Q304	B3G
580	3401002000990	Transistor 2SC5108-Y	1	Q308	B2I
581	3403003000060	Transistor 2SC4617TLS	1	Q306	B5G
582	3403007000000	Transistor DTA114EE(TL)	1	Q205	T1H
583	3403007000000	Transistor DTA114EE(TL)	1	Q406	T1H
584	3403007000070	Transistor DTA144EE	1	Q110	T4F
585	3403007000070	Transistor DTA144EE	1	Q201	B1G
586	3403008000010	Transistor DTC114EE(TL)	1	Q108	T4F
587	3403008000010	Transistor DTC114EE(TL)	1	Q109	T4F
588	3403008000010	Transistor DTC114EE(TL)	1	Q407	T1H
589	3403008000010	Transistor DTC114EE(TL)	1	Q506	T2B
590	3403008000010	Transistor DTC114EE(TL)	1	Q507	T1B
591	3403008000030	Transistor DTC114TE	1	Q105	B5F
592	3403008000070	Transistor DTC144EE(TL)	1	Q405	T3E
593	3403008000070	Transistor DTC144EE(TL)	1	Q501	T4K
594	3403008000070	Transistor DTC144EE(TL)	1	Q505	T1I
595	3610045000010	SCM M30624FGPGP#U5C	1	IC506*	T3J
596	3304040200000	Varactor BB179 SOD523	1	D305	B3G
597	3304060300050	Varactor HVC350BTRF-E	1	D206	B2D
598	3304060300050	Varactor HVC350BTRF-E	1	D207	B2D
599	3304060300050	Varactor HVC350BTRF-E	1	D209	B3B
600	3304060300050	Varactor HVC350BTRF-E	1	D210	B3B
601	3304060300010	Varactor HVC376BTRF-E	1	D301	B3H
602	3304060300010	Varactor HVC376BTRF-E	1	D302	B3H
603	3304060300010	Varactor HVC376BTRF-E	1	D303	B3H
604	3304060300010	Varactor HVC376BTRF-E	1	D304	B3H
605	3304060300010	Varactor HVC376BTRF-E	1	D307	B5G
606	3304060300010	Varactor HVC376BTRF-E	1	D308	B5H
607	3304060300010	Varactor HVC376BTRF-E	1	D309	B5H
608	3304060300010	Varactor HVC376BTRF-E	1	D310	B5H
609	3612031004420	Memory AT24C256N-10SU-2	1	IC501	T2K
610	3613034001060	Baseband processing IC AK2346-E2	1	IC408	B2J
611	3613034001060	Baseband processing IC AK2346-E2	1	IC409	T3G
612	3802499540070	Crystal filter 49.95MHz ±7.5k	1	XF203	B1F
613	3605008005070	Operational amplifier NJM2904V	1	IC101	T4E
614	3605017005540	Operational amplifier 1.7V TDA2822D	1	IC401	T2E
615	3503010000010	FET 2SJ243-T1-A	1	Q303	B4G
616	3503010000010	FET 2SJ243-T1-A	1	Q503	T1I
617	3503010000010	FET 2SJ243-T1-A	1	Q504	T1I
618	3608020005750	Power management IC TK11250CM-G	1	IC503	T1I
619	3503020000030	FET 2SK1824-T1-A	1	Q107	T4F
620	3503020000030	FET 2SK1824-T1-A	1	Q404	T1F
621	3503020000030	FET 2SK1824-T1-A	1	Q409	B3J
622	3603002005440	IF processing IC TA31136FNG	1	IC204	B2G

No.	Material No.	Description	Qty.	Ref. No.	Print No.
623	3605002057290	Operational amplifier TC75W51FU	1	IC402	T1E
624	3605002057290	Operational amplifier TC75W51FU	1	IC404	B2I
625	3605002057290	Operational amplifier TC75W51FU	1	IC405	B4K
626	3605002057290	Operational amplifier TC75W51FU	1	IC407	T1J
627	3499000000140	Transistor 2SK508-K52-T1B-A	1	Q302	B3G
628	3499000000140	Transistor 2SK508-K52-T1B-A	1	Q307	B4H
629	3604025004350	PLL ADF4111BRUZ 1.2G	1	IC301	B4I
630	3101054730000	Chip capacitor 0402 0.047UF K	1	C427	T1E
631	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C109	B3F
632	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C112	B4E
633	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C122	B4C
634	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C159	B3G
635	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C206	B1H
636	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C208	B1H
637	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C213	B2G
638	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C214	B1H
639	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C215	B2H
640	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C224	B2F
641	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C227	T1G
642	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C229	B1G
643	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C231	T1H
644	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C251	B2C
645	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C254	B2B
646	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C264	B3C
647	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C334	B4J
648	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C337	B4J
649	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C338	B5I
650	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C345	B2I
651	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C355	B4G
652	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C356	B4G
653	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C404	T1E
654	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C405	T1E
655	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C416	T1E
656	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C417	T2E
657	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C422	T1D
658	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C432	B3J
659	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C458	B1K
660	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C463	T1J
661	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C469	B2J
662	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C484	B3J
663	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C495	T1H
664	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C523	T1J
665	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C601	T2E
666	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C609	T1F
667	3101051000020	Chip capacitor 0402 10PF J 50V	1	C303	B3I
668	3101051000020	Chip capacitor 0402 10PF J 50V	1	C330	B3I
669	3101051000020	Chip capacitor 0402 10PF J 50V	1	C335	B3J
670	3101051000020	Chip capacitor 0402 10PF J 50V	1	C359	B4I
671	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C403	T1E
672	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C425	B3J
673	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C467	B2I
674	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C491	B3J

No.	Material No.	Description	Qty.	Ref. No.	Print No.
675	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C496	T2C
676	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C525	T4K
677	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C531	T2G
678	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C532	T2H
679	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	C559	T2G
680	3101051050000	Chip capacitor 0402 1UF K 6.3V	1	R491	T1H
681	3101052220010	Chip capacitor 0402 2200pF K 5	1	C447	B4K
682	3101052220010	Chip capacitor 0402 2200pF K 5	1	C480	B3K
683	3101055620010	Chip capacitor 0402 5600PF K 2	1	C460	T1J
684	3701016850010	TCXO 16.8MHz 5V D	1	X301	B3I
685	3199050758000	Chip capacitor 0402 0.75P B 50	1	C129*	B5C
686	3101060800010	Chip capacitor 0603 8PF B 50V	1	C323	B4G
687	3502010000390	FET 2SK3475	1	Q103	B3E
688	3515990000000	FET RQA0002DNSTB-E	1	Q104	B4D
689	3701098340010	Crystal 9.8304MHz DSX530G	1	X501	T3K
690	3101060900010	Chip capacitor 0603 9PF B 50V	1	C164*	B4C
691	3101061000000	Chip capacitor 0603 10PF J 50V	1	C306*	B3H
692	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R532	T3I
693	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R533	T3I
694	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE1	T3B
695	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE10	T1D
696	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE11	T1C
697	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE12	T1D
698	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE13	T2D
699	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE14	T2B
700	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE15	T2C
701	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE2	T3B
702	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE22	T5E
703	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE3	T2B
704	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE31	T2F
705	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE32	T2F
706	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE33	T3F
707	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE34	T4B
708	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE4	T3B
709	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE5	T4H
710	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE6	T4H
711	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE7	T4H
712	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE8	T4B
713	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	RE9	T1D
714	3001082010000	Chip resistor 1206 200Ω J 1/4	1	RE16	T1A
715	3001082410000	Chip resistor 1206 240Ω J 1/4	1	RE17	T1B
716	3001061540010	Chip resistor 0603 150KΩ D 1/	1	RE29	T3D
717	3001061540010	Chip resistor 0603 150KΩ D 1/	1	RE30	T3C
718	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R124	B5F
719	3101081020000	Chip capacitor 1206 1000PF K 6	1	C517	B2A
720	3001080000000	Chip resistor 1206 0Ω J 1/4W(	1	R455	T1D
721	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R525	T3B
722	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R526	T3B
723	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R527	T3B
724	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R528	T3B
725	3101051040010	Chip capacitor 0402 0.1UF Z 25	1	C635	T3G
726	3001052040000	Chip resistor 0402 200KΩ J 1/	1	R521	T2H

No.	Material No.	Description	Qty.	Ref. No.	Print No.
727	3101051530010	Chip capacitor 0402 0.015UF K	1	C424	B2J
728	3101051530010	Chip capacitor 0402 0.015UF K	1	C493	B2J
729	4002000000180	Chip fuse 0603-FF 0.25A-32V	1	FE1	T2A
730	4016000000000	Chip fuse 0603-FF 0.5A-32V	1	FE3	T2C
731	4016000000000	Chip fuse 0603-FF 0.5A-32V	1	FE5	T2F
732	4016000000010	Chip fuse0603-FF 2.0A-32V	1	FE4	T3C
733	3008163390000	Chip film resistor 2010 3.3Ω 5%	1	RE18	T2A
734	3008113990000	Chip film resistor 2512 3.9Ω 5%	1	RE19	T2B
735	3008111290000	Chip film resistor 2512 1.2Ω 5%	1	RE20	T2C
736	3001082710000	Chip resistor 1206 270Ω 5% 0.2	1	RE24	B3C
737	3001082710000	Chip resistor 1206 270Ω 5% 0.2	1	RE25	B3C
738	3101082260000	Chip capacitor 1206 22UF ±20%	1	CE1	T2C
739	3101082260000	Chip capacitor 1206 22UF ±20%	1	CE2	T3C
740	3101082260000	Chip capacitor 1206 22UF ±20%	1	CE5	T1D
741	3101082260000	Chip capacitor 1206 22UF ±20%	1	CE6	T1C
742	3303990000000	Schottky barrier diode LL103A 15A-4	1	DE4	T3B
743	3303990000000	Schottky barrier diode LL103A 15A-4	1	DE5	T3B
744	3303990000000	Schottky barrier diode LL103A 15A-4	1	DE6	T4B
745	5202004200010	FFC/FPC connector 9632S-04E	1	J504	T4H
746	3101060500030	Chip capacitor 0603 5PF C 50V	1	C309	B3G
747	3001055610000	Chip resistor 0402 560Ω J 1/1	1	R318	B4I
748	3101061600000	Chip capacitor 0603 16PF J 50V	1	CE10	B3B
749	3101061600000	Chip capacitor 0603 16PF J 50V	1	CE9	B3C
750	3001113380000	Chip resistor 2512 0.33Ω 1% 2	1	RE26	T4C
751	3001113380000	Chip resistor 2512 0.33Ω 1% 2	1	RE27	T4C
752	3302040300040	Zener diode BZX84－C2V4 SOT-	1	DE1	B5E
753	3302040300040	Zener diode BZX84－C2V4 SOT-	1	DE2	B5E
754	3302040300040	Zener diode BZX84－C2V4 SOT-	1	DE3	B5F

Adjustment Description

Adjust the radio by PC programming software or by manual adjustment. In manual adjustment mode, the adjustment method is shown as follows (Refer to “Software Specification” for the manual adjustment mode).

Required Test Instrument

Radio Communication Test Set	1 set
Scanner	1 set
3A/10V Power Supply	1 set
Digital Voltmeter	1 set
3A Ammeter	1 set

Adjustment

Adjustment in user mode

Firstly ground the SELF point, turn on the radio by holding down TK for 2 seconds, and then the radio enters reset mode with green LED flashing twice. Turn the channel selector knob to the selected channel and press PTT, the radio data is all reset (All clone modes will be automatically activated when reset is completed). Refer to All Reset Mode in Software Specification for more details:

VCO

Item	Condition	Measurement		Adjustment		Specification/ Remarks
		Test Instrument	Terminal	Parts	Method	
1. Setting	Power supply voltage					
2.Transmit VCO lock voltage	1. CH: TX high	Digital Voltmeter	CV	TC301 TC302	3.9V±0.1V	
	2. TX Low				Check	>0.5V
3.Receive VCO lock voltage	1. CH: RX high				3.9V±0.1V	
	2. RX low				Check	>0.5V

Manual Adjust Mode Description

(1) Enter the manual adjust mode

Turn the radio on by holding down TK and SK2 key simultaneously for 2 seconds, the radio enters manual adjust mode with red LED flashes twice. (TK: Top key; SK1: Side key1; SK2: Side key2)

(2) Channel number on the channel selector knob

Each channel number on the channel selector knob is defined a setting item. The bandwidth is 25 KHz and low frequency (F1) each time the channel selector knob is rotated.

(3) SK2 key

Used to set the frequency. 1 point tuning is used to adjust center frequency, 3 point tuning adjusts F1, F3, F5 and 5 point tuning adjusts F1-F5. The frequency toggles from low frequency to high frequency. Green LED flashes once when F1 is selected.

(4) TK key

Use to toggle the channel bandwidth among 25 KHz, 20 KHz and 12.5 KHz. Red LED flashes once when the bandwidth is 25 KHz.

(5) PTT/SK1

PTT -> Increase

SK1 -> Decrease

PTT/SK1 is pressed to adjust upward/downward. Red LED glows indicating the maximum adjust value and green LED indicating the minimum value. Hold down the key to increase/decrease the adjust value continuously.

Press PTT key to save the BATT LOW and SQL settings, then green LED glows once.

(6) Select adjustment item group

The first group of adjustment item is selected when the radio enters the manual adjust mode. Turn to CH16 and press PTT key to enter the next group. Press again to return to the first group. Orange LED flashes once when the first group is selected. Orange LED flashes twice when the second group is selected.

(7) Frequency Setting (can be set via programming software)

5 point tuning (MHz) TX: { TX1,TX2,TX3,TX4,TX5}
RX: { RX1,RX2,RX3,RX4,RX5}

3 point tuning (MHz) TX: { TX1, TX3, TX5}
RX: { RX1, RX3, RX5}

1 point tuning (MHz) TX: { TX3}
RX: { RX3}

Adjustment Method

Turn the radio on by holding down TK and SK2 key simultaneously for 2 seconds, the radio enters manual adjust mode with red LED flashes twice. Refer to Manual Adjust Mode in TC-700 Software Specification for more details.

Transmitter

Item		Condition	Test Instrument	Method	Purpose
Group 1	Adjust a channel	Enter the adjust mode; Turn to CH1; TX mode.	Radio Communication Test Set; TX Test	Adjust VR1	Frequency Error ≤100Hz
	1. TX power Low	Enter the adjust mode. Turn to CH1. Adjust at 5 point (wide).	Radio Communication Test Set TX TEST HPF：20HZ LPF：300HZ	PTT key (increase) SK1 key (decrease)	Adjust power to: 0.5W±0.1W
	2. CDCSS balance	Enter the adjust mode. Turn to CH3. Adjust at 3 point (wide), 1 point (medium) and 1 point (narrow) respectively.			No adjustment

	3. CDCSS deviation	Enter the adjust mode. Turn to CH3. Adjust at 3 point (wide), 1 point (medium) and 1 point (narrow) respectively.	Radio Communication Test Set TX TEST HPF：20HZ LPF：300HZ	PTT key (increase) SK1 key (decrease)	Adjust deviation to 750Hz (wide), 600Hz (medium) and 400Hz (narrow) respectively.
	4. CTCSS (67.0Hz) deviation Low	Enter the adjust mode. Turn to CH4. Adjust at 3 point (wide), 1 point (medium) and 1 point (narrow) respectively.			
	5. CTCSS (136.5Hz) deviation Center	Enter the adjust mode. Turn to CH5. Adjust at 3 point (wide), 1 point (medium) and 1 point (narrow) respectively.			
	6. CTCSS (254.1Hz) deviation High	Enter the adjust mode. Turn to CH6. Adjust at 3 point (wide), 1 point (medium) and 1 point (narrow) respectively.			
	7. AK2346 Transmit Audio Deviation	Enter the adjust mode. Turn to CH7. Adjust at 3 point (wide), 1 point (medium), 3 point (narrow).	Radio Communication Test Set HPF: 20Hz LPF: 15KHz 1KHz 120Mv		Adjust deviation to 4KHz (wide), 3.2KHz (medium) and 2KHz (narrow) respectively.
	8. 2-Tone deviation	Enter the adjust mode. Turn to CH8. Adjust at 1 point (wide), 1 point (medium), 1 point (narrow).	Radio Communication Test Set TX Test HPF: 20Hz LPF: 15KHz No modulation signal.		Adjust deviation to 3.2KHz (wide), 2.5KHz (medium) and 1.8KHz (narrow) respectively.
	9. DTMF deviation	Enter the adjust mode. Turn to CH9. Adjust at 1 point (wide), 1 point (medium), and 1 point (narrow).			Adjust deviation to 3.2KHz (wide), 2.5KHz (medium) and 1.8KHz (narrow) respectively.

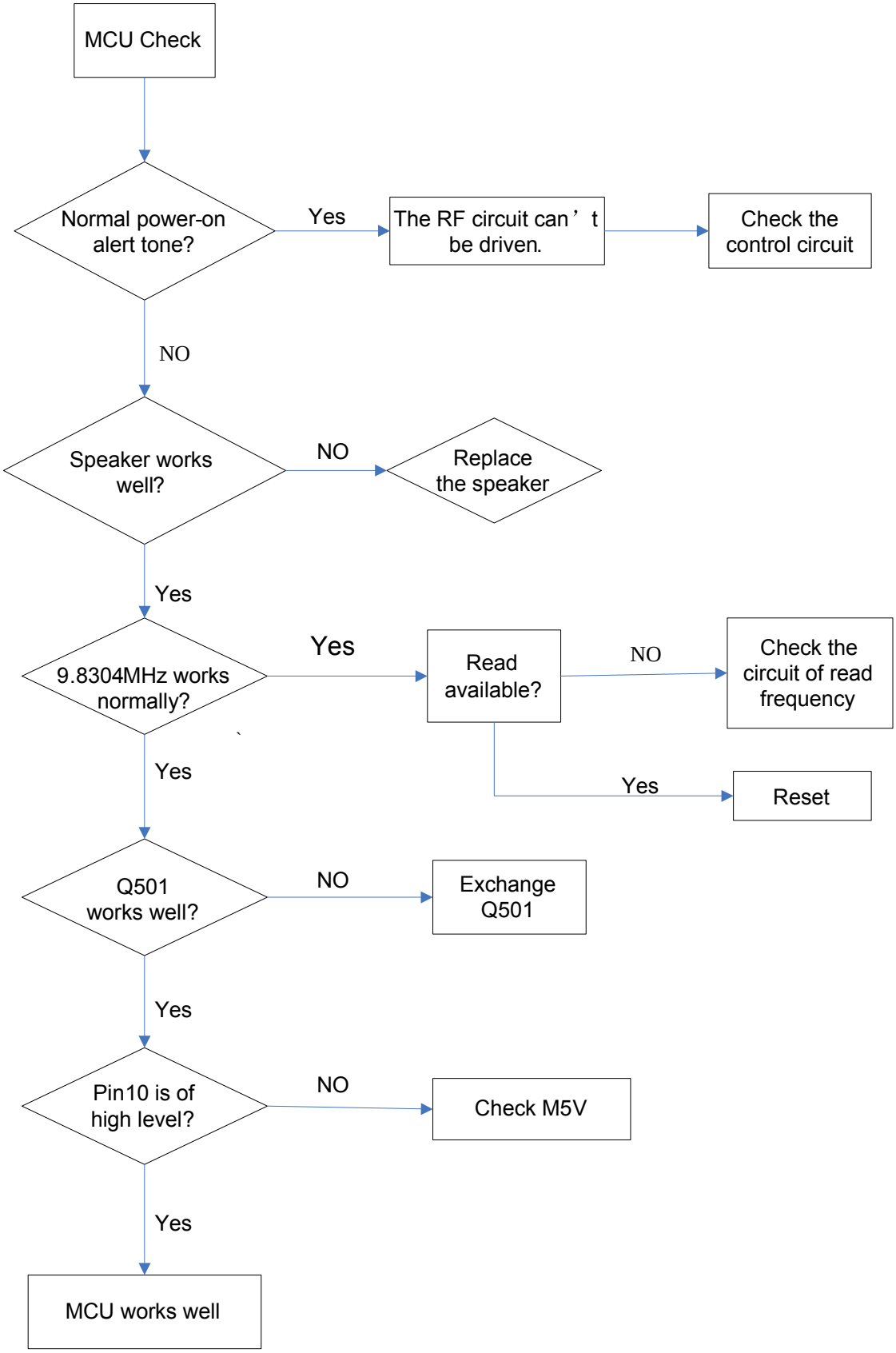
Group 1	10. MSK deviation	Enter the adjust mode. Turn to CH10. Adjust at 3 point (wide), 1 point (medium), 1 point (narrow).			Adjust deviation to 3.2KHz (wide), 2.5KHz (medium) and 1.8KHz (narrow) respectively.
	11. VOX GAIN1	Enter the adjust mode. Turn to CH11. Adjust at 1 point (wide).	Radio Communication Test Set Tx TEST HPF: 20HZ LPF: 15KHZ	Save	Modulation signal: 1KHz, 45mv Press PTT to save; (unavailable now)
	12. VOX GAIN5	Enter the adjust mode. Turn to CH12. Adjust at 1 point (wide).			Modulation signal: 1KHz, 15mv Press PTT to save; (unavailable now)
	13. Tx power HIGH	Enter the adjust mode. Turn to CH13. Adjust at 5 point (wide).	Radio Communication Test Set Tx TEST	PTT key (increase) SK1 key (decrease)	Adjust power to 3W±0.1W
	14. Tx voltage Low	Enter the adjust mode. Turn to CH14. Adjust at 1 point (wide).		Save	Adjust voltage to 5.8V, press PTT to save.

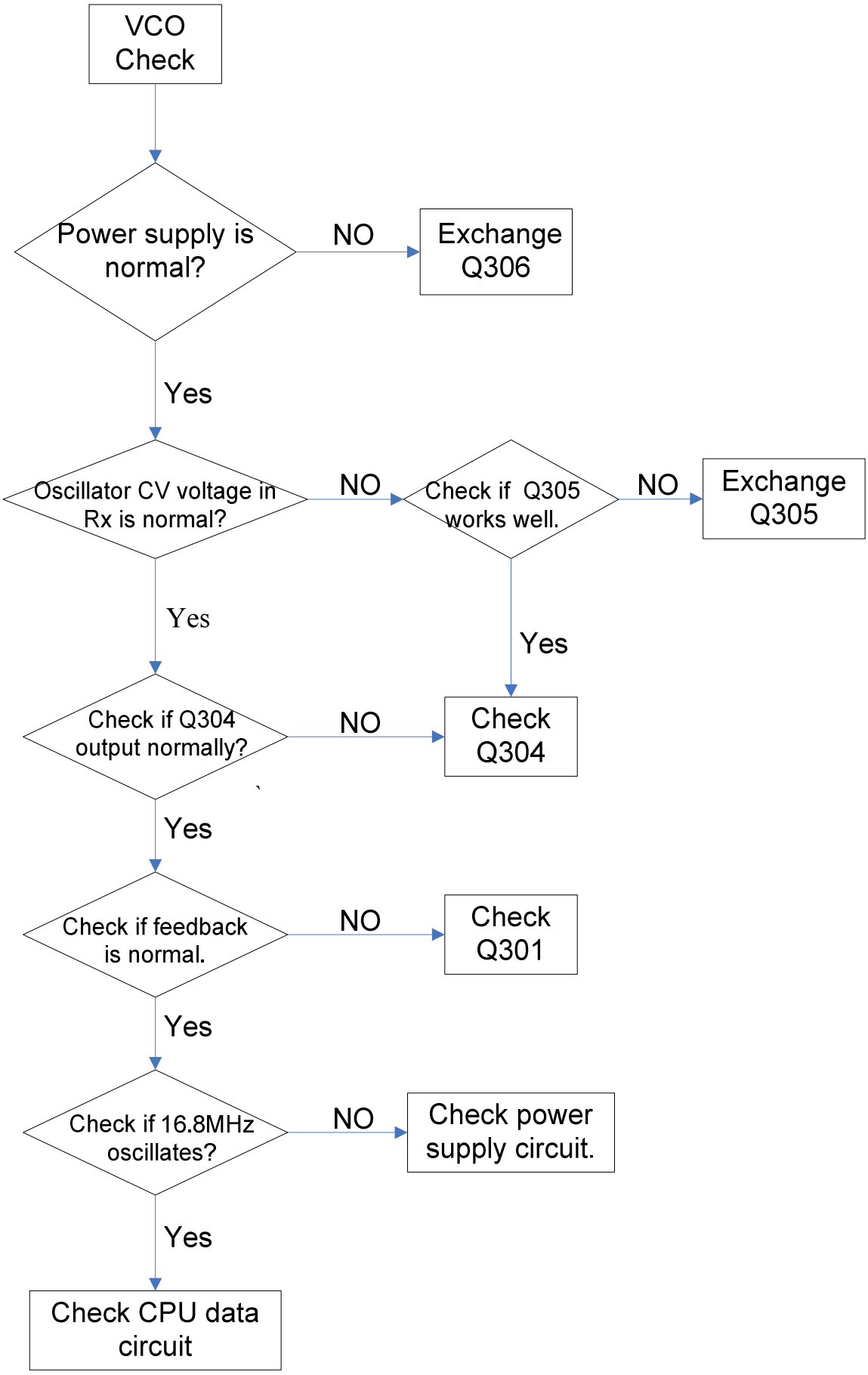
Receiver

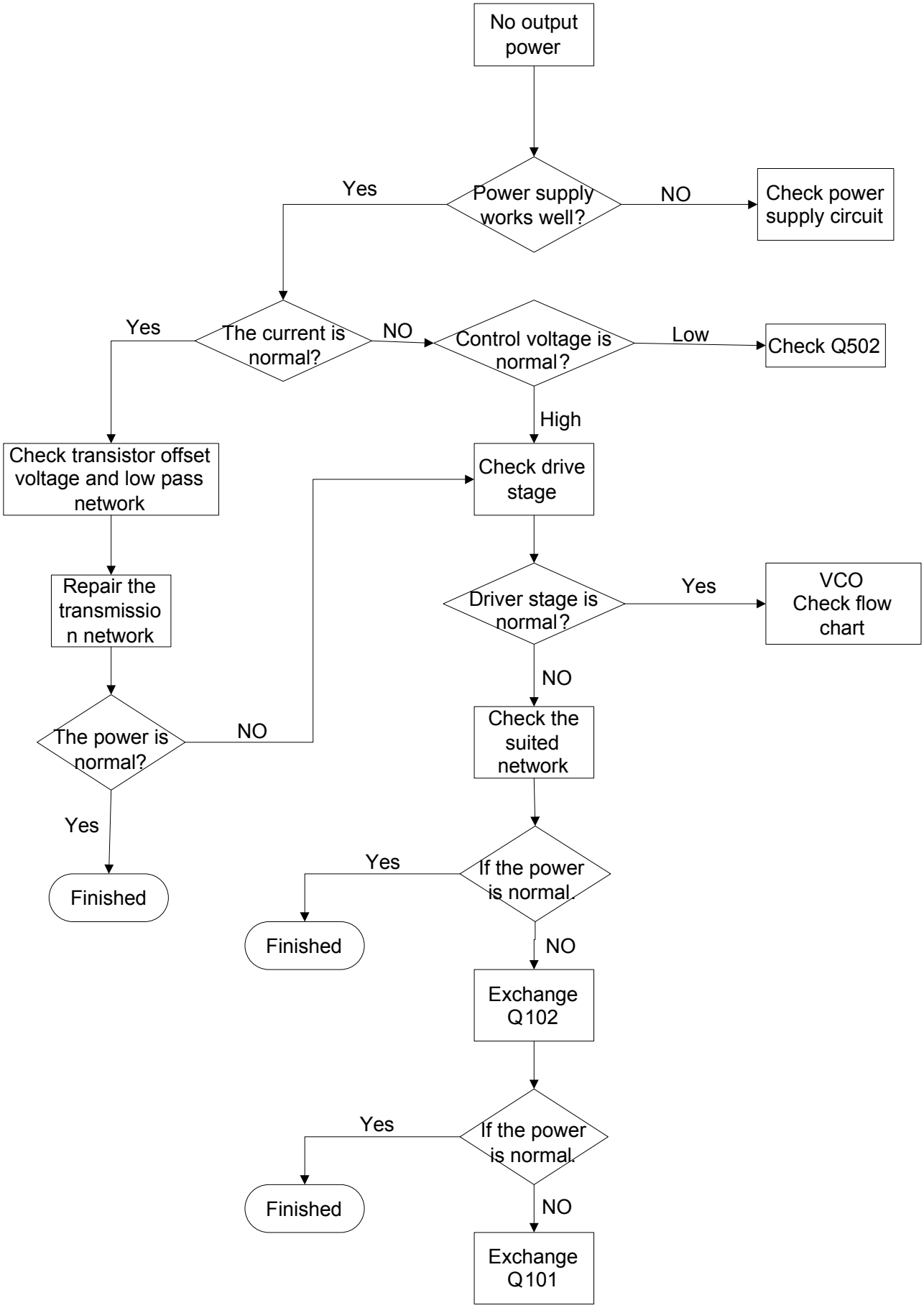
Item		Condition	Test Instrument	Method	Purpose
Group 2	1. Rx sensitivity	Enter the adjust mode. Turn to CH1. Adjust at 5 point (wide).	Radio Communication Test Set Rx TEST HPF: 300HZ LPF: 3KHZ	PTT key SK1 key	Adjust level to 119dBm. SINAD≥12dB
	2. AK2346 RX volume	Enter the adjust mode. Turn to CH2. Adjust 1 point at wide, medium and narrow respectively.		PTT key (Increase) SK1 key (Decrease)	When Max. volume is set, adjust AC level to 1W (16Ω), single input 2V, dual input 4V
	3. Squelch Level 3 (OPEN)	Enter the adjust mode. Turn to CH3. Adjust at 5 point (wide), 1 point (medium) and 3 point (narrow) respectively.		Save	Adjust level to -123dBm, press PTT to save
	4. Squelch Level 3 (SQUELCH)	Enter the adjust mode. Turn to CH4. Adjust at 5 point (wide), 1 point (medium) and 3 point (narrow) respectively.		Save	Adjust level to -125dBm, press PTT to save
	5. Squelch Level 9 (OPEN)	Enter the adjust mode. Turn to CH5. Adjust at 5 point (wide), 1 point (medium) and 3 point (narrow) respectively.		Save	Adjust level to -117dBm, press PTT to save
	6. Squelch Level 9 (SQUELCH)	Enter the adjust mode. Turn to CH6. Adjust at 5 point (wide), 1 point (medium) and 3 point (narrow) respectively.		Save	Adjust level to -119dBm, press PTT to save
	7. RX voltage Low	Enter the adjust mode. Turn to CH7. Adjust at 1 point (wide).		Save	No adjustment 6.6V ± 0.2V

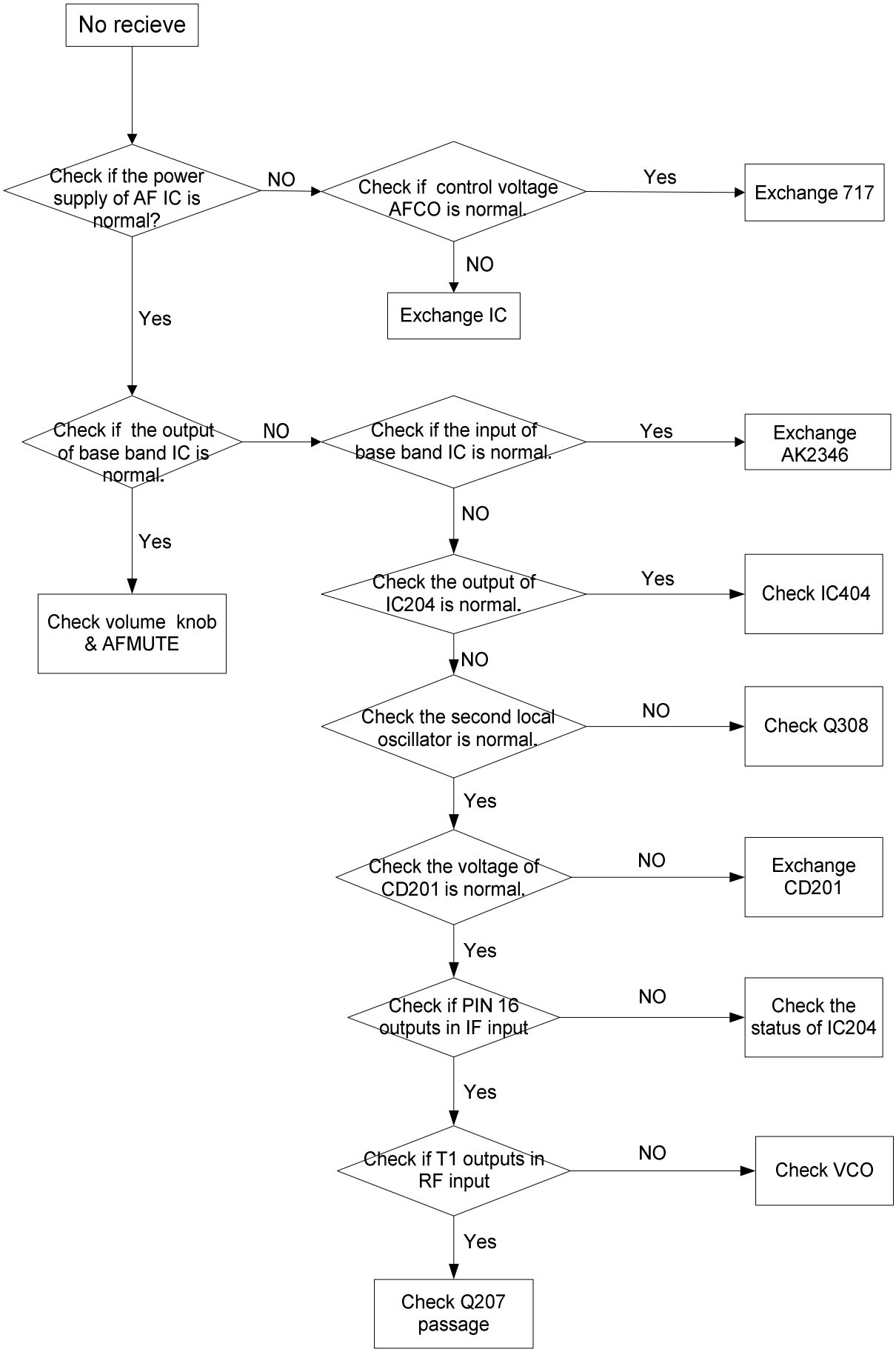
Note: AF deviation of the receiver is 3KHz (wide), 2.5KHz(medium) and 1.5KHz (narrow).

Troubleshooting




VCO Check
Power supply is normal?
NO
Exchange Q306
Yes
Oscillator CV voltage in Rx is normal?
NO
Check if Q305 works well.
NO
Exchange Q305
Yes
Yes
Check if Q304 output normally?
NO
Check Q304
Yes
Check if feedback is normal.
NO
Check Q301
Yes
Check if 16.8MHz oscillates?
NO
Check power supply circuit.
Yes
Check CPU data circuit


No output power
Power supply works well?
Yes
NO
Check power supply circuit
The current is normal?
Yes
NO
Control voltage is normal?
Low
Check Q502
High
Check transistor offset voltage and low pass network
Check drive stage
Repair the transmissio n network
Driver stage is normal?
Yes
VCO Check flow chart
NO
The power is normal?
NO
Check the suited network
Yes
Finished
If the power is normal.
Yes
Finished
NO
Exchange Q102
If the power is normal.
Yes
Finished
NO
Exchange Q101


No recieve
Check if the power supply of AF IC is normal?
NO
Check if control voltage AFCO is normal.
Yes
Exchange 717
NO
Exchange IC
Yes
Check if the output of base band IC is normal.
NO
Check if the input of base band IC is normal.
Yes
Exchange AK2346
Yes
Check volume knob & AFMUTE
NO
Check the output of IC204 is normal.
Yes
Check IC404
NO
Check the second local oscillator is normal.
NO
Check Q308
Yes
Check the voltage of CD201 is normal.
NO
Exchange CD201
Yes
Check if PIN 16 outputs in IF input
NO
Check the status of IC204
Yes
Check if T1 outputs in RF input
NO
Check VCO
Yes
Check Q207 passage

Disassembly and Assembly

> **WARNING:** Never assemble or disassemble the ATEX-approved intrinsically safe radio in a hazardous area.

Remove the case assembly from the chassis (shown as Fig. 1)

1. Remove the volume knob and channel selector knob①.
2. Remove the two screws ②.
3. Lift the both sides of chassis from the case assembly ③.

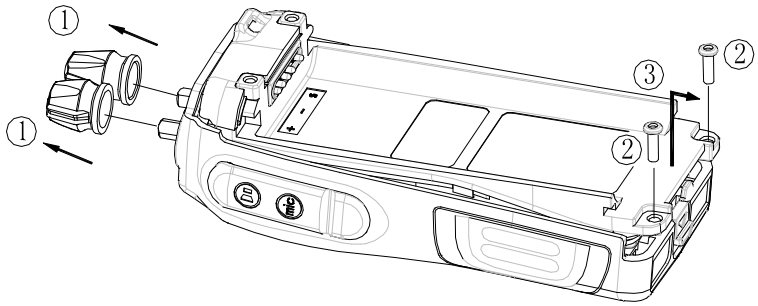


Figure. 1

Remove the speaker (shown as Fig. 2)

1. Remove the three screws ④ on the fixing ring of the speaker and take out the fixing ring ⑤.
2. Take out the speaker and waterproof gasket ⑥.

> **Note:** be careful not to snap the speaker wire.

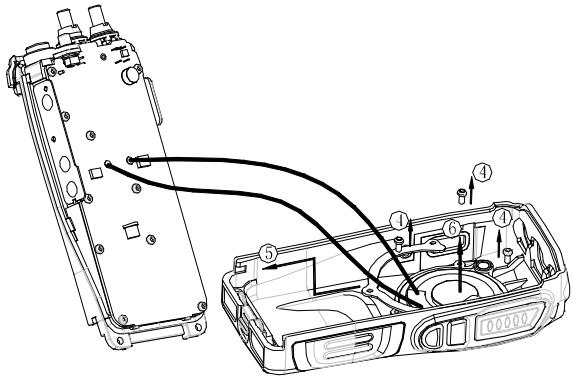


Figure. 2

Cautions for Assembly

Attaching radio case to the bracket

1. Make sure the waterproof cushion is firmly attached into the slot ① of the bracket.

2. Attach speaker and its waterproof ring to the corresponding place on the case ②.

Note: ensure the speaker and its waterproof ring are securely inserted.

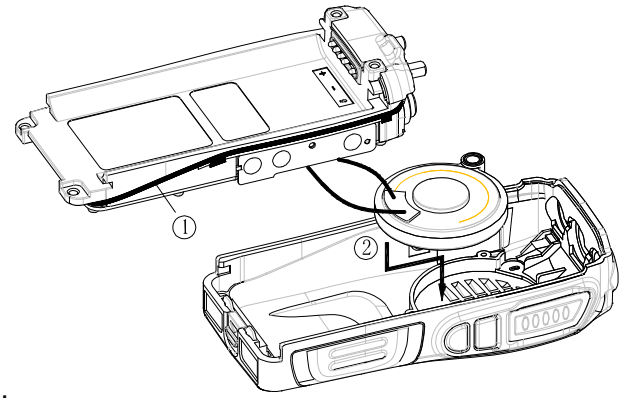


Figure 4

3. Press the stainless fixing ring on the waterproof ring of the speaker, and attach the screw ③.
4. Insert the top side of the bracket into the case ④. Caution: Do not place the speaker wire on the magnetic core of speaker.
5. Press the bracket downwards and attach the screw ⑤ to make the bracket is assembled into the case.

Note: Manually place the waterproof ring for main unit at the proper position if it is mal-positioned.

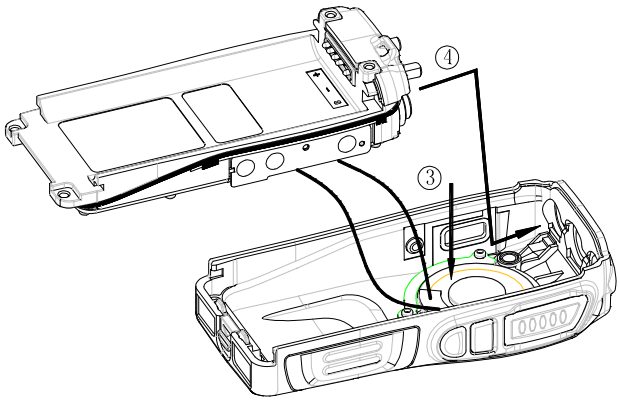


Figure. 5

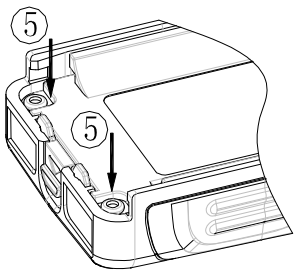
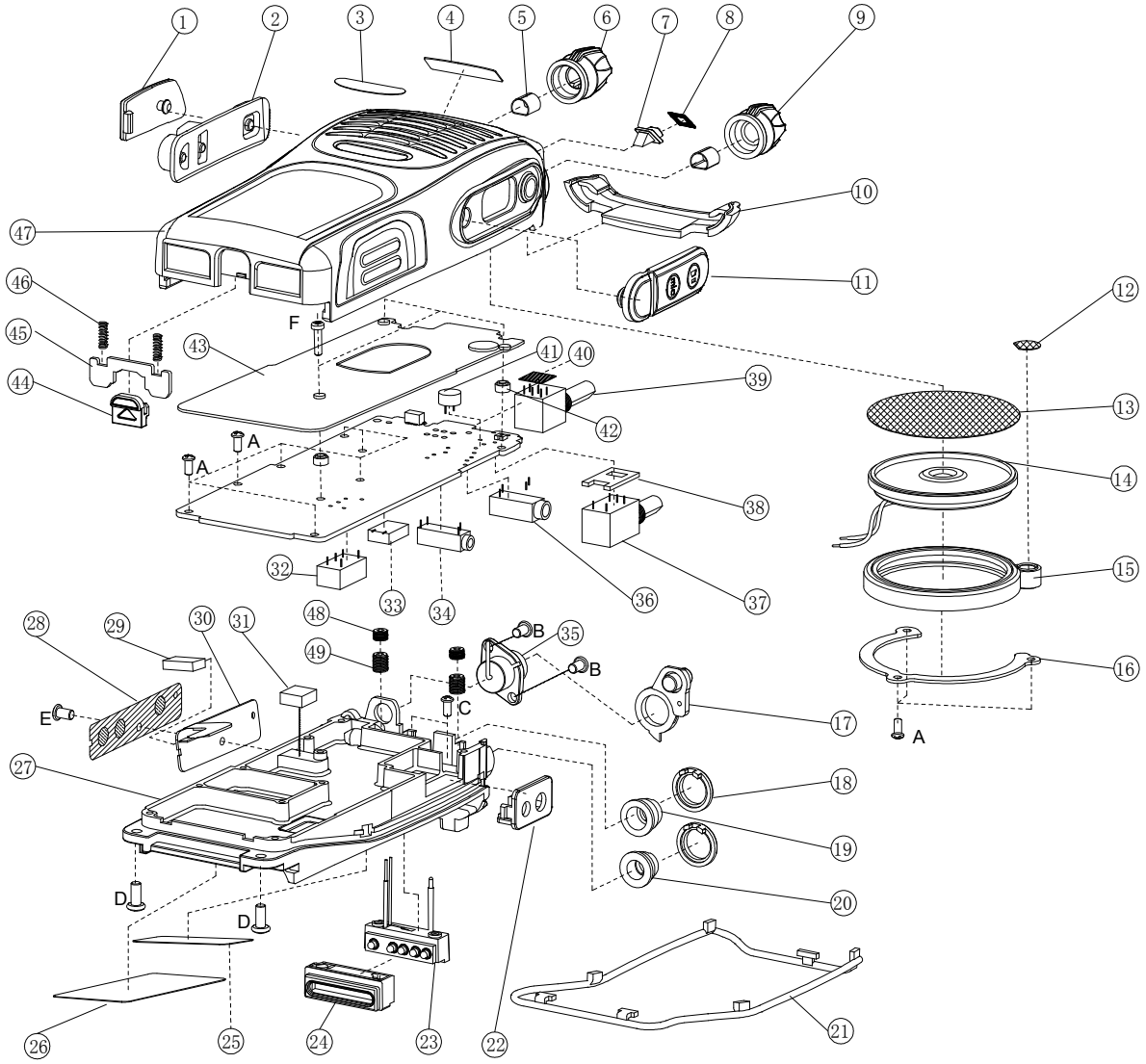


Figure. 6

Exploded View

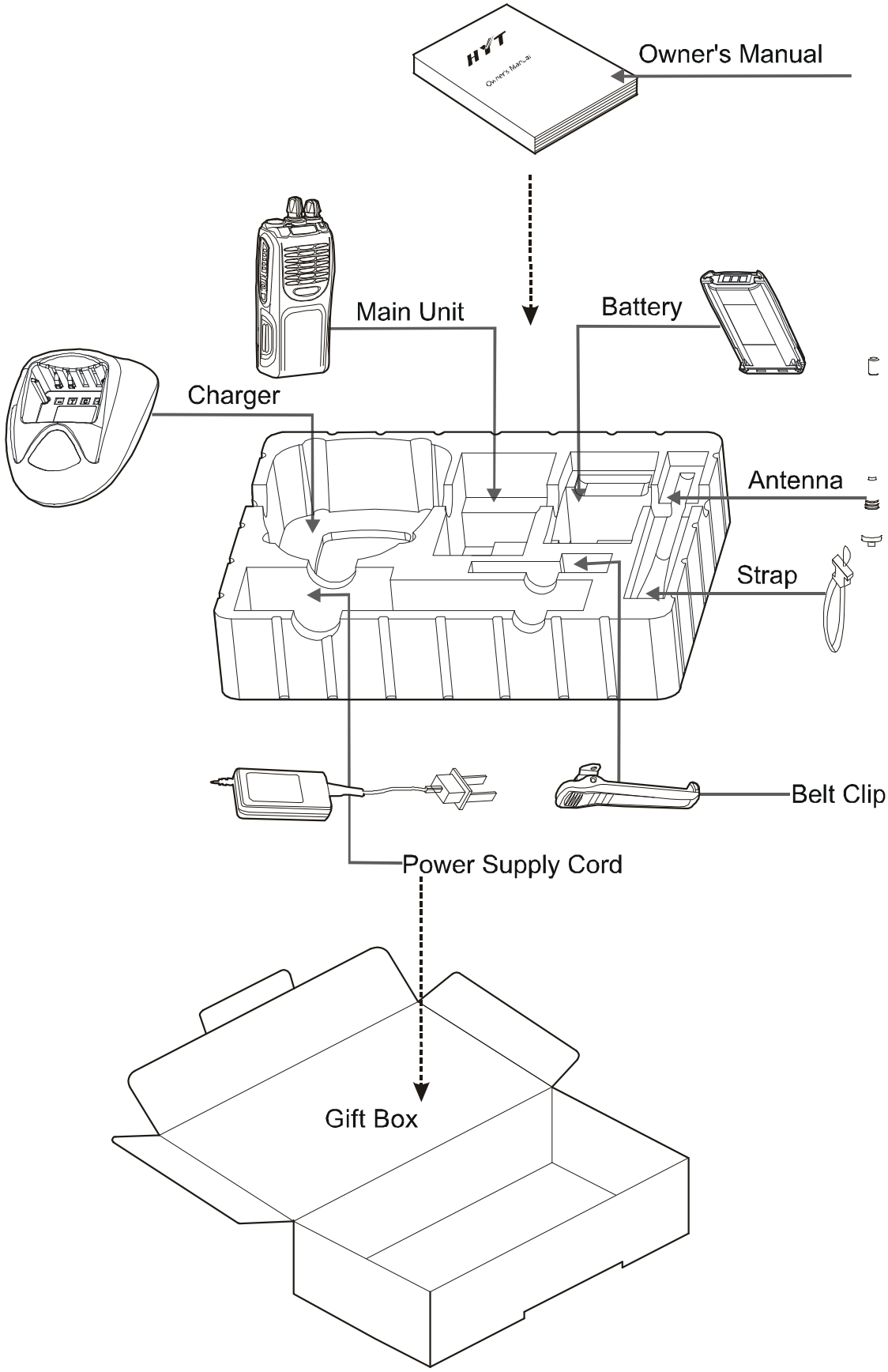


Parts List 2

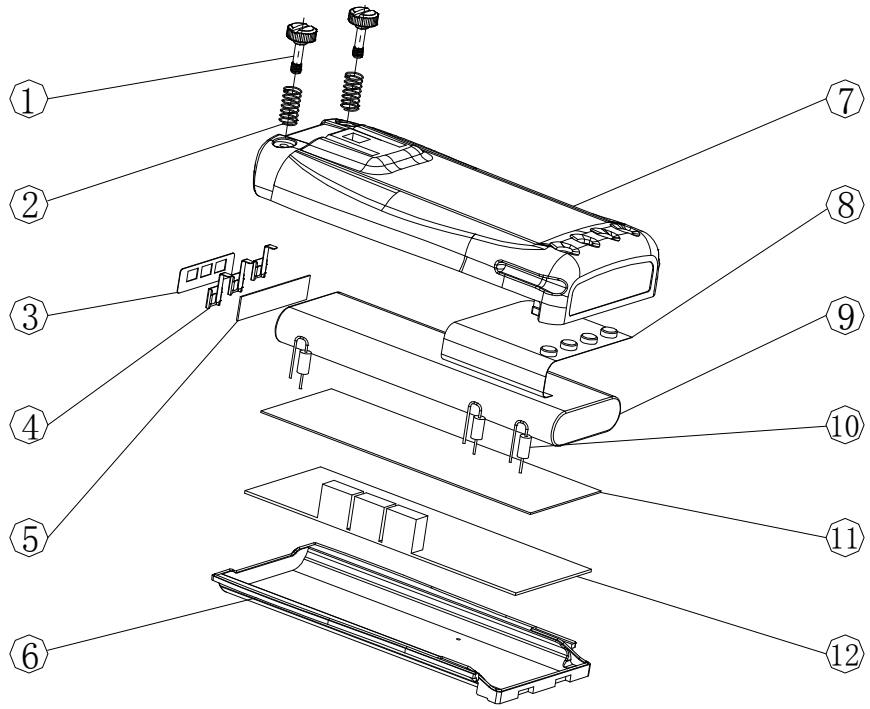
No.	Material No.	Description	Qty.
1	6000135000000	PTT key cover	1
2	6100068000000	Silica rubber PTT key	1
3	8600700500000	Model label	1
4	8600700500100	HYT logo, metal label	1
5	6201006000000	Inner liner knob	2
6	6000076000020	Channel selector knob	1
7	6000136000000	Light guide	1
8	750700S000000	3M (9448) adhesive tape for light guide	1
9	6000077000030	Volume control knob	1
10	6000134000000	Rear cover of radio unit	1
11	6000138000000	Dust cover	1
12	7400051000000	MIC cover	1
13	7400054000000	Grill cloth	1
14	5001190000090	Speaker	1
15	6100066000000	Waterproof ring for speaker	1
16	6201079000000	Stainless steel fixing ring for speaker	1
17	6100067000000	Waterproof ring for antenna	1
18	6100069000000	Waterproof ring for volume control knob	2
19	7207005400000	Nut M7.0*5.4mm	1
20	7206004200000	Nut M6.0*4.2	1
21	6100065000000	Waterproof ring for radio unit	1
22	6000137000000	Bracket for MIC holder	1
23	5202003100120	Battery connector	1
24	6100070000000	Waterproof ring for battery connector	1
25	86700EX400000	Warning label	1
26	8600700000100	Model label	1
27	6300016001000	Aluminum chassis	1
28	7300001000000	Metal dome of PTT	1
29	5202004200010	FPC/FPC connector	1
30	41700EX100400	PTT PCB	1
31	7500114000000	Heat sinking pad	1
32	3801045030090	Ceramic filter	1
33	3920450300000	Modulator plug-in	1
34	5205000000190	Earpiece jack	1
35	4400000000000	SMA connector	2
36	5205000000280	Speaker jack	1
37	4302020000040	Volume switch	1

No.	Material No.	Description	Qty.
38	7500044000000	Volume switch pad	1
39	4304030000010	Gray code channel switch	1
40	7400023000010	PVC sheet	1
41	5002110000020	MIC	1
42	6000519000000	PCB holder	3
43	41700EX100310	Cool PCB	1
44	6000128000000	Battery latch	1
45	6201078000000	Battery latch baffle	1
46	7000036000000	Spring	2
47	6000133100030	Front case of radio unit	1
48	7104502500000	Machine screw M5*3 mm	2
49	7203004000000	Nut M3.0*4.0 mm	2
A	7101904020020	Self-tapping screw ST1.9*4mm	10
B	7102504000300	Machine screw M2.5*4.0mm	2
C	7402004520000	Self-tapping screw ST2.0*4.5mm	2
D	7102508000000	Machine screw M2.5*8.0mm	2
E	7102004020050	Self-tapping screw ST2.0*4.0mm	1
F	7102007020010	Self-tapping screw ST1.9*7.0mm	1

Packing


Owner's Manual
Main Unit
Battery
Charger
Antenna
Strap
Belt Clip
Power Supply Cord
Gift Box

Exploded View (ATEX-approved Battery)

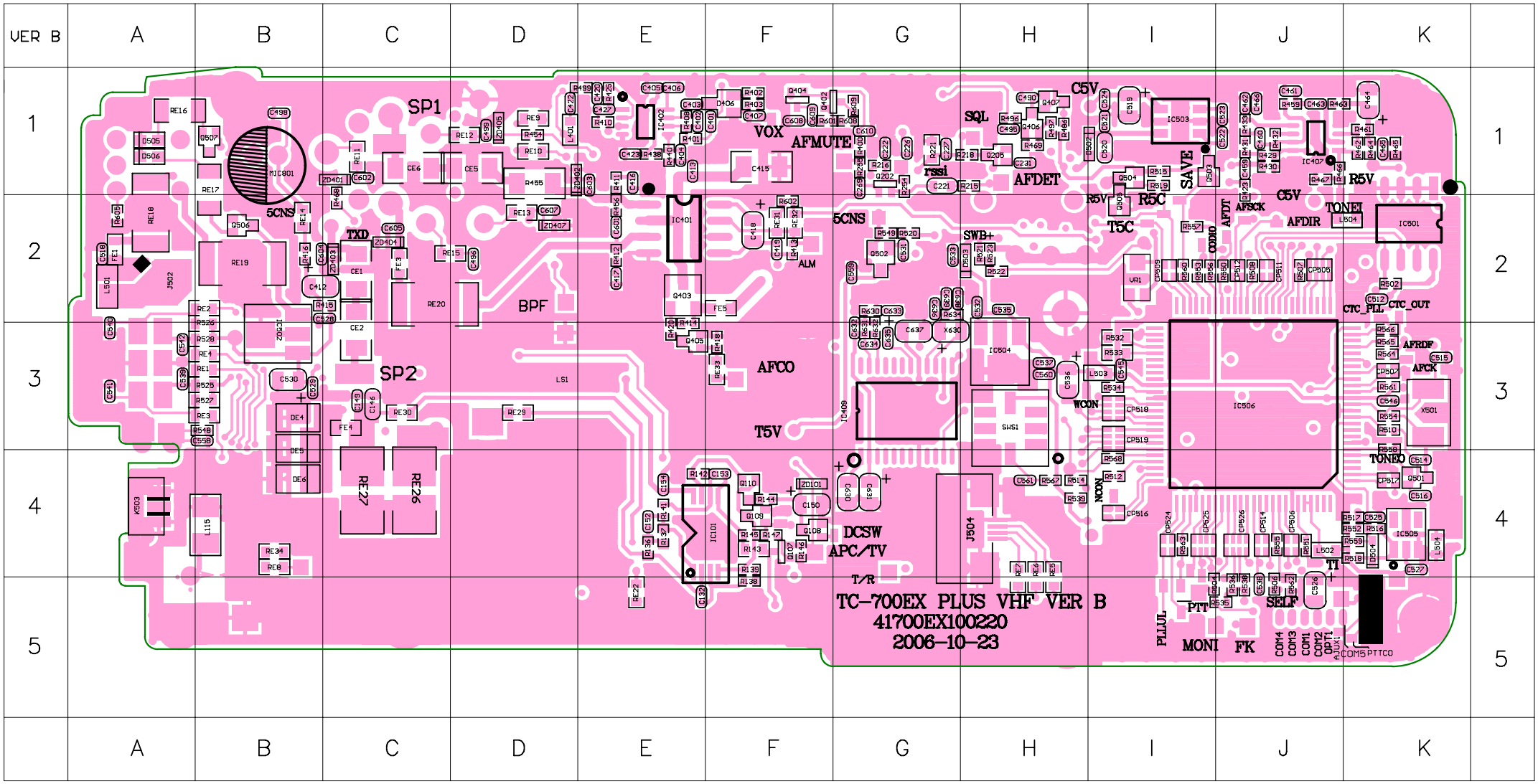


Parts List (ATEX-approved Battery)

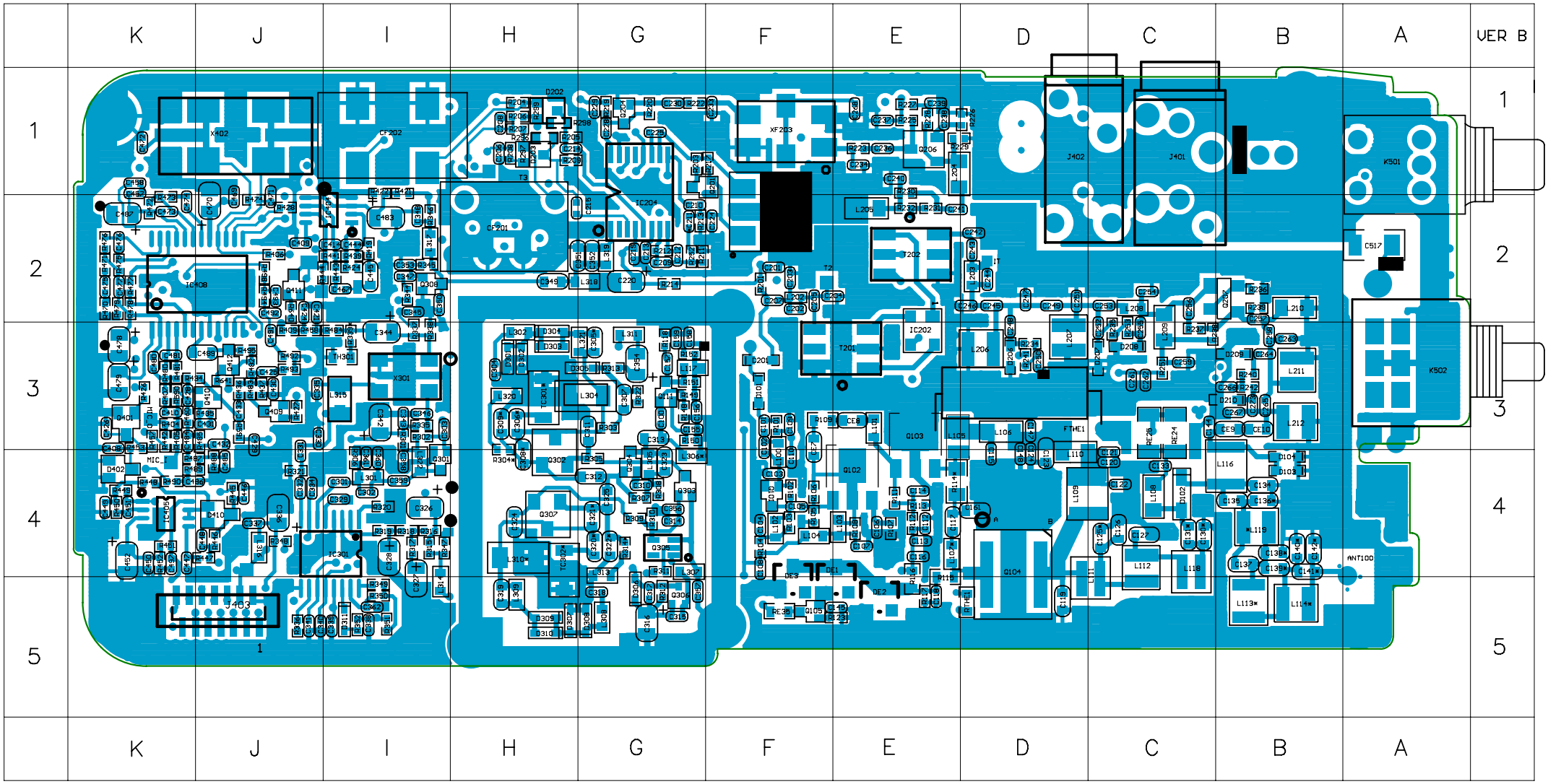
No.	Material No.	Description	Qty.
1	7103009000000	Machine screw M3.0*9mm	2
2	7000019000000	Battery spring	2
3	7400172000000	Battery's electrode piece, PC	1
4	6201444000000	Battery's discharging piece	3
5	7400161000000	Holder for battery's charging piece	1
6	6000131000010	Battery cover	1
7	6000484000000	Battery case	1
8	1300700EX0090	FPCB	1
9	5521700010020	Li-Ion battery core	2
10	3229999670000	Bead Inductor	3
11	7400165000000	Ex Li-Ion Battery's insulation sheet	1
12	1300700EX0080	Battery protecting plate	1

TC-700 Ex PLUS VHF PC Board View

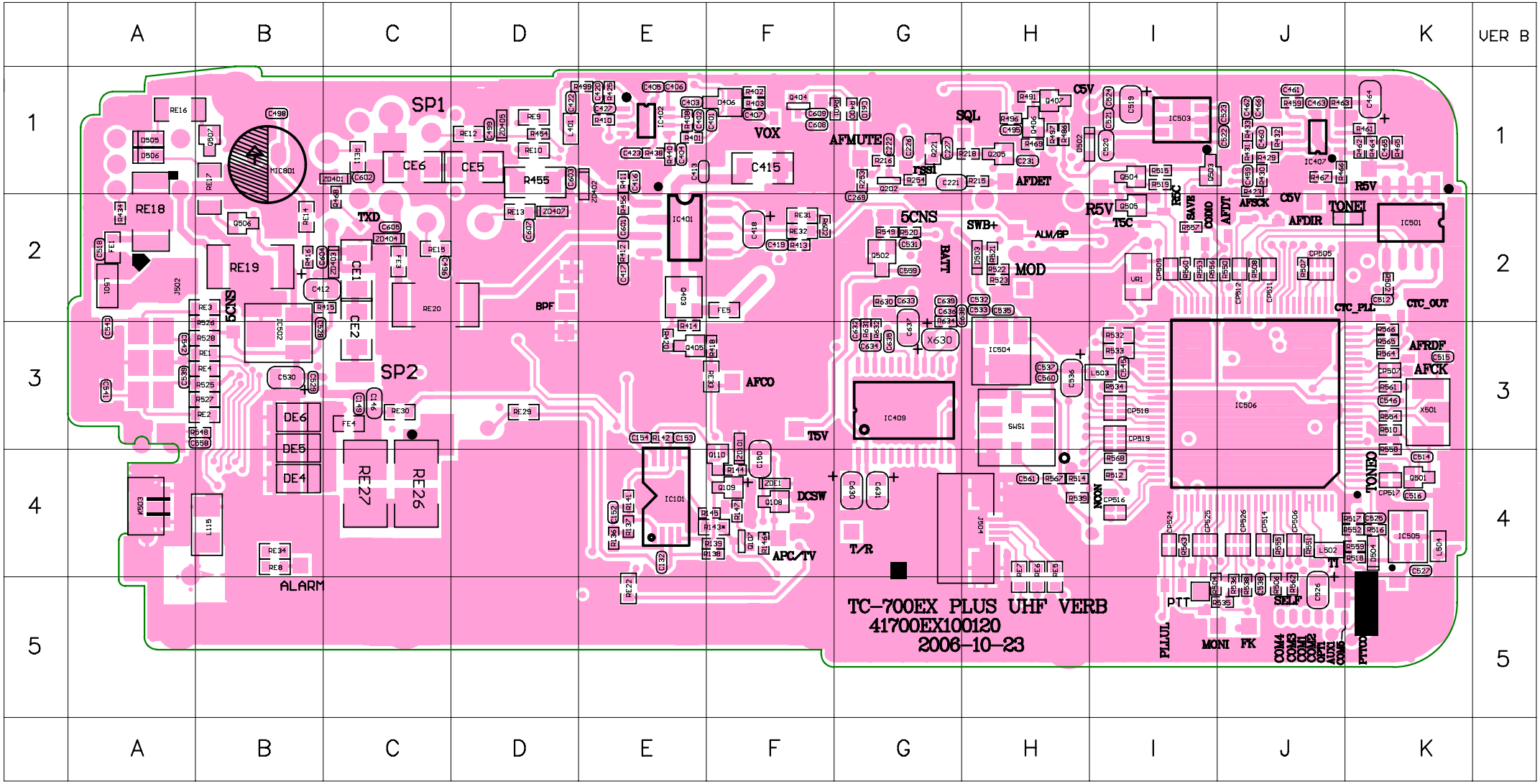
Top Layer



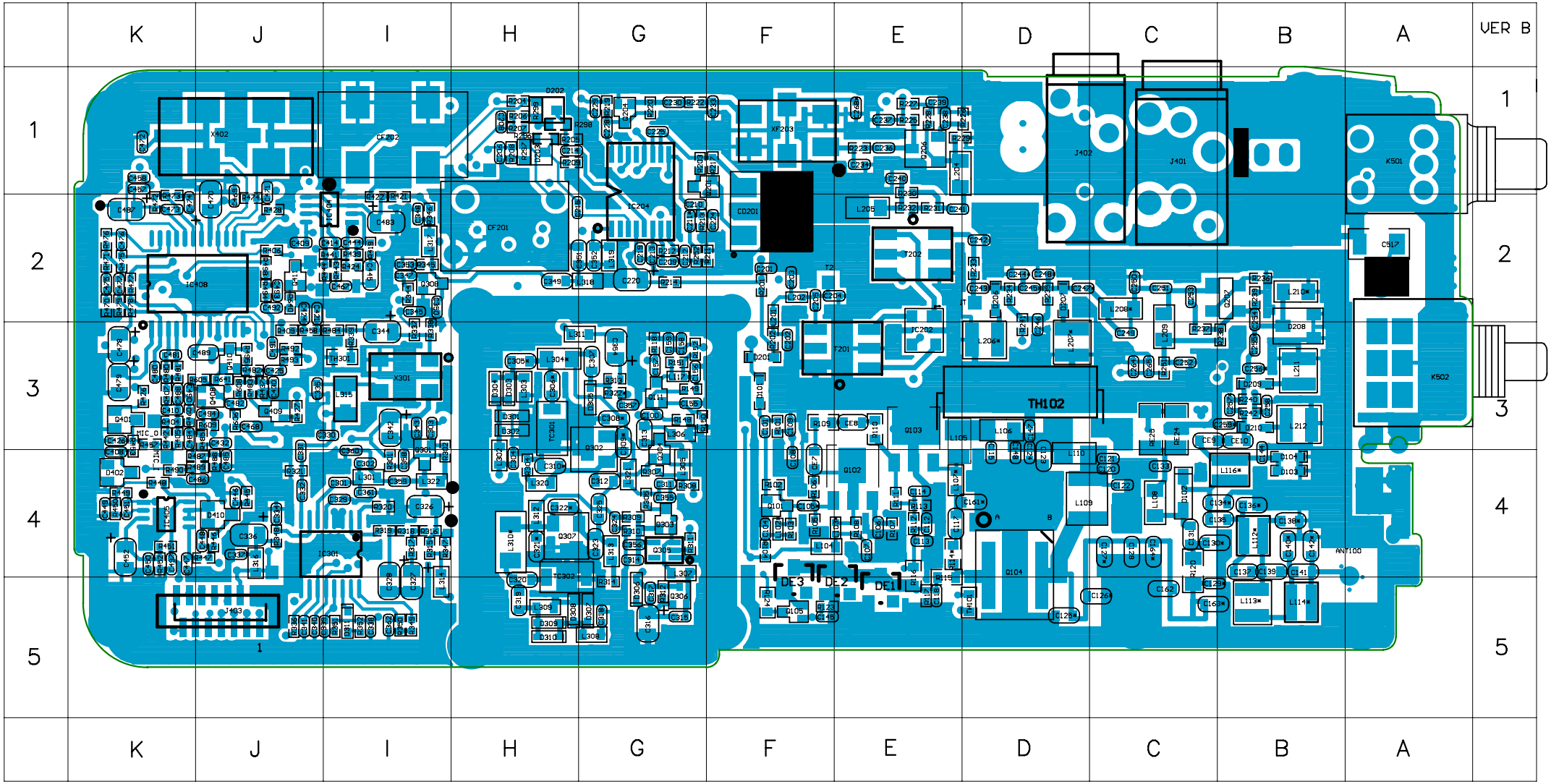
TC-700 Ex PLUS VHF PC Board View
Bottom Layer



TC-700 Ex PLUS UHF PC Board View
Top Layer

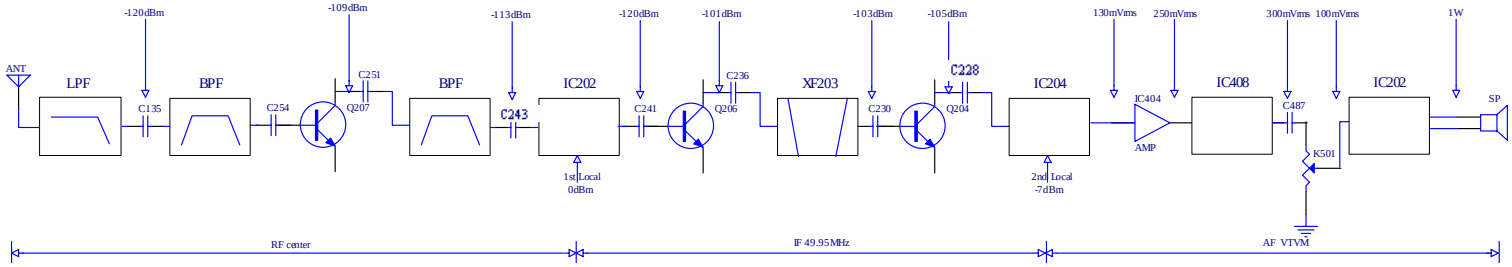


TC-700 Ex PLUS UHF PC Board View
Bottom Layer



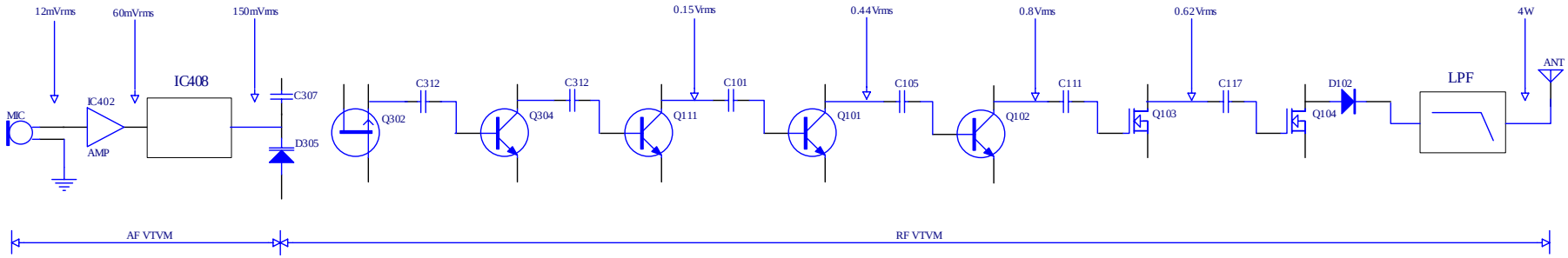
TC-700 Ex PLUS Level Diagram

Rx Section



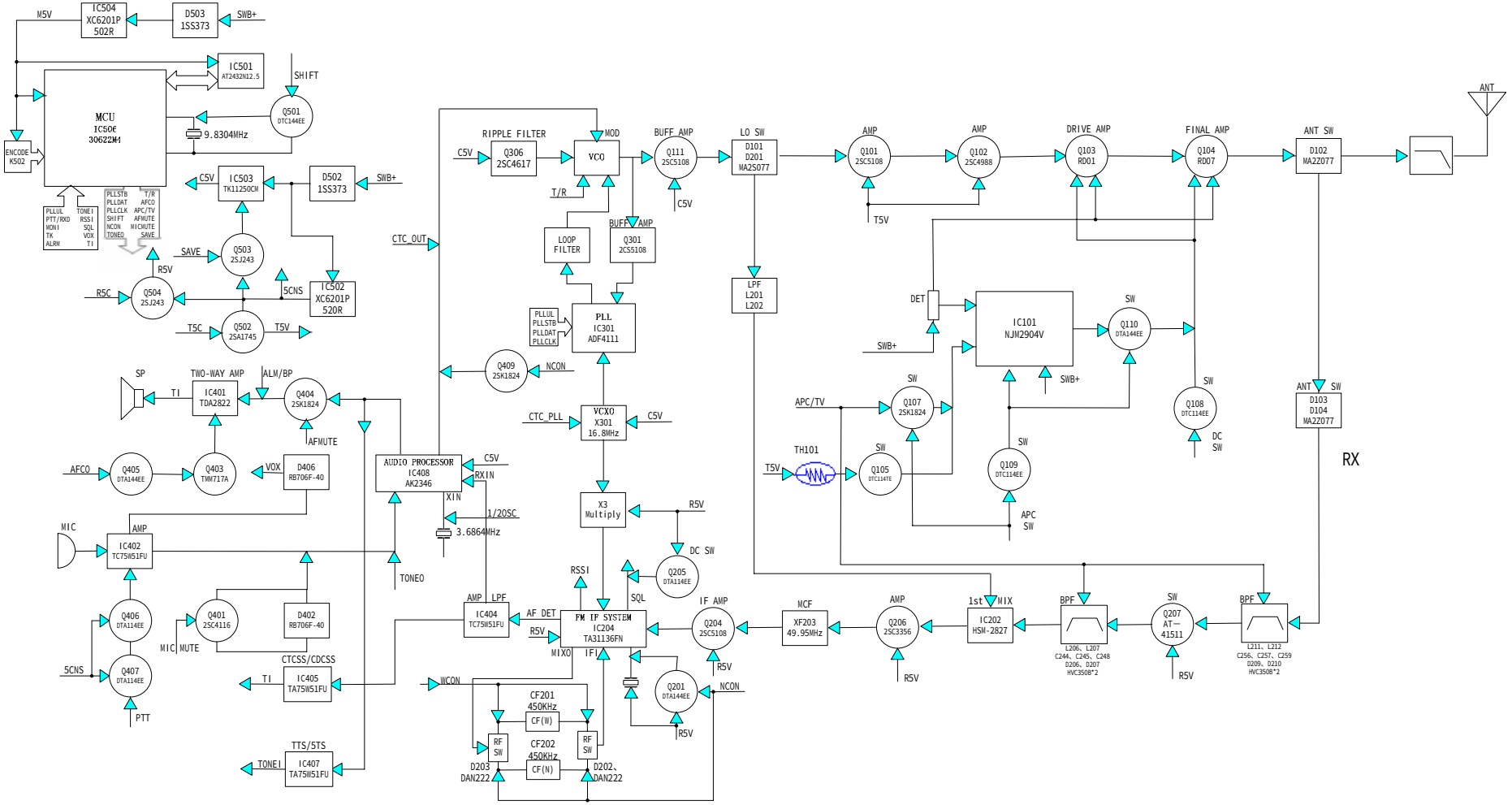
Each of the levels plotted from RF to the first IF is the level that can provide a 12dB SINAD for an SSG signal through a 470pFb coupling capacitor. When AF ouput is adjusted to 1W, adjust the frequency deviation of 1KHz AF level to 3KHz (Wide), 1.5KHz (Narrow).

Transmit

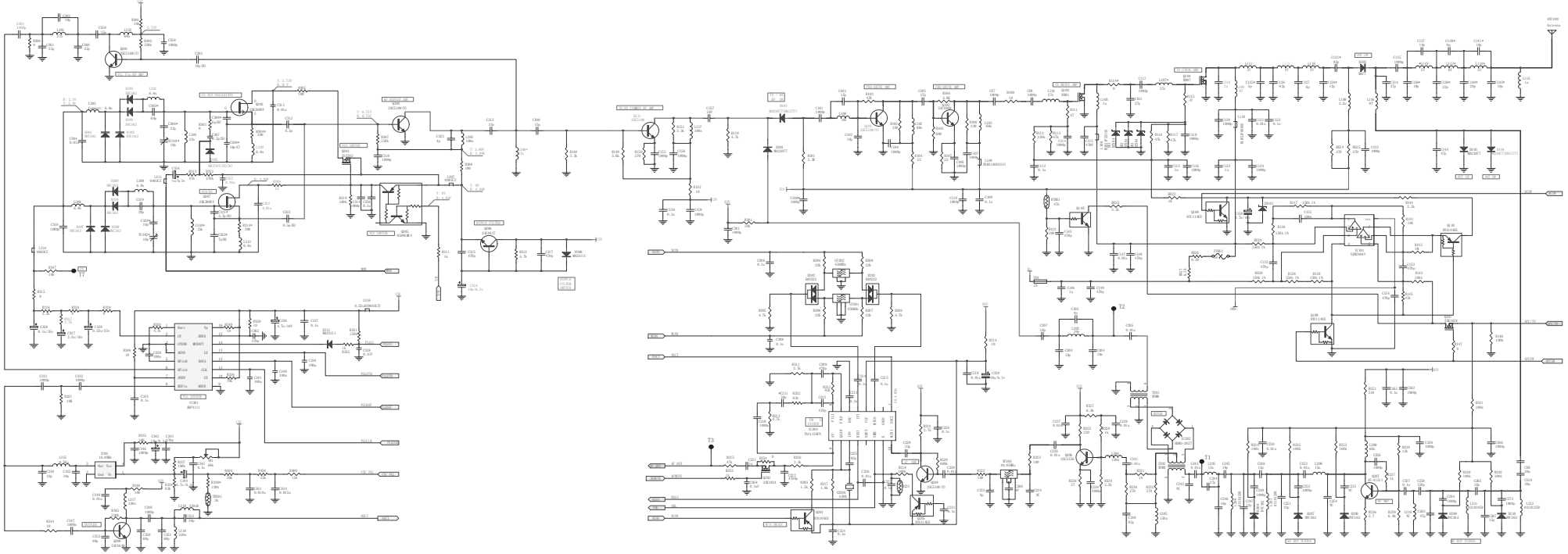


AF and RF levels are measured at high impedance.

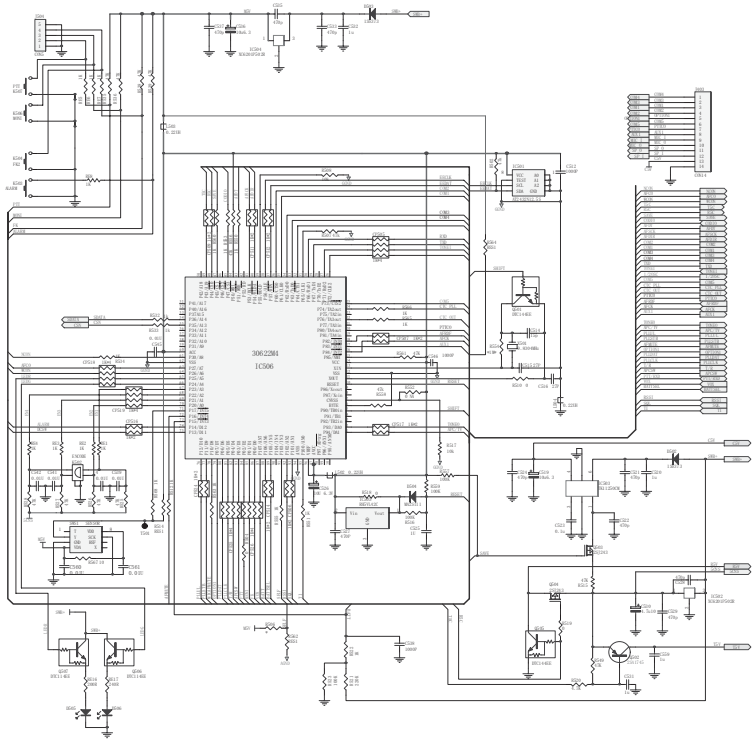
TC-700 Ex PLUS Block Diagram

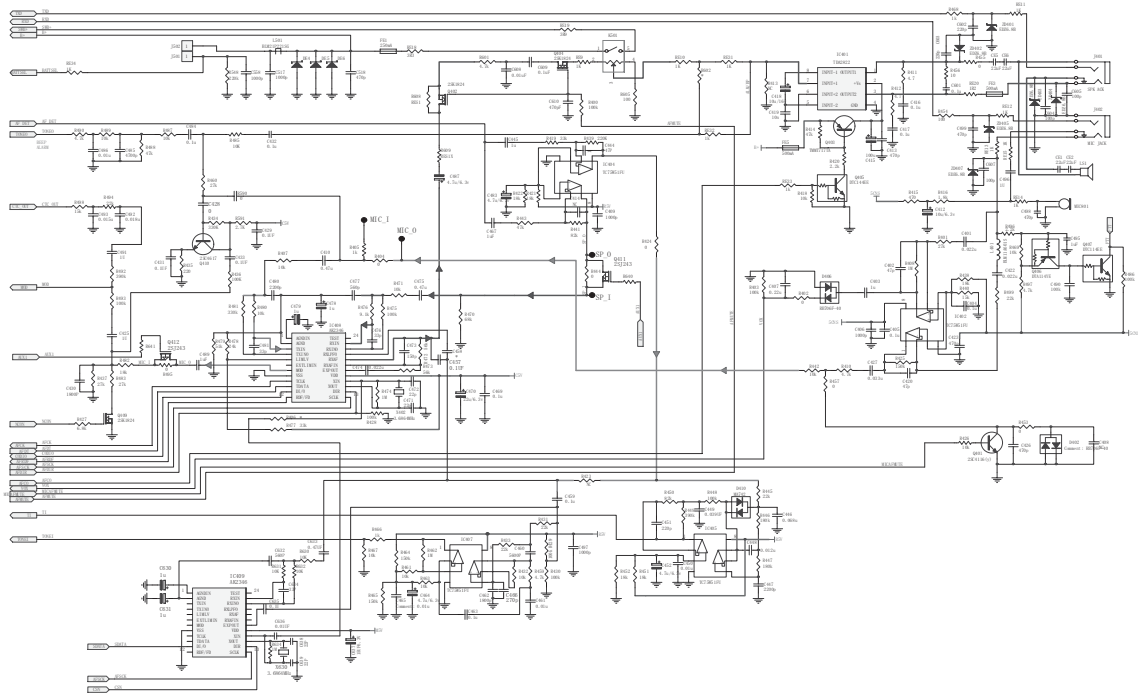


TC-700 Ex PLUS VHF Schematic Diagram (RF)

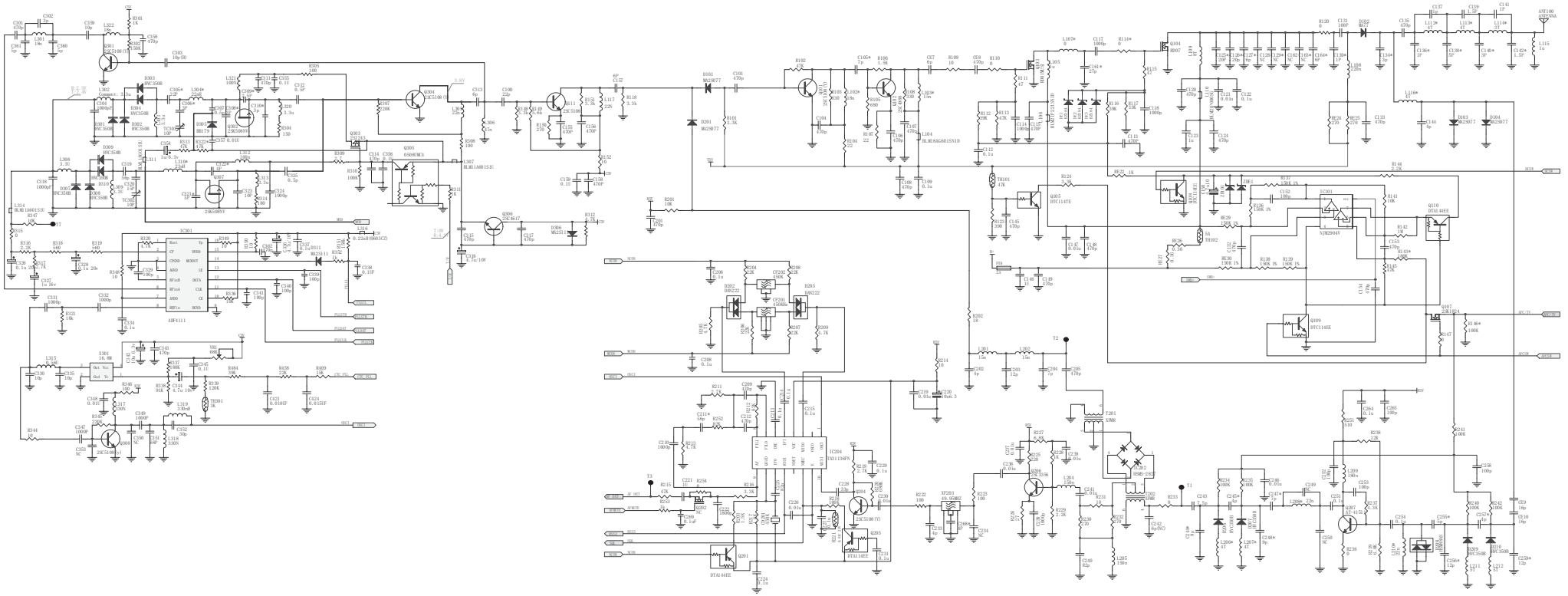


TC-700 Ex PLUS VHF Schematic Diagram
(Baseband & AF Amplifier)

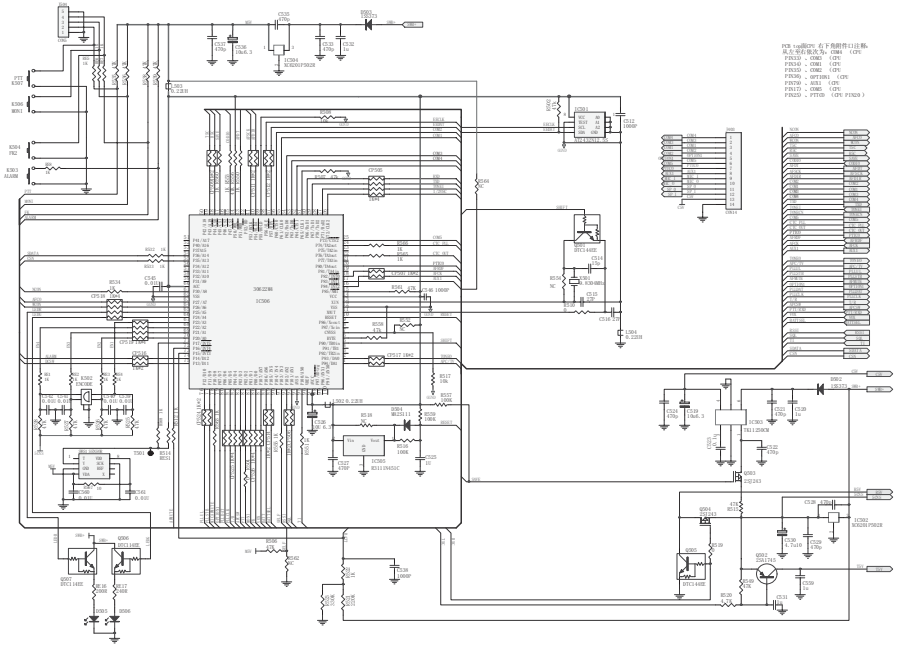


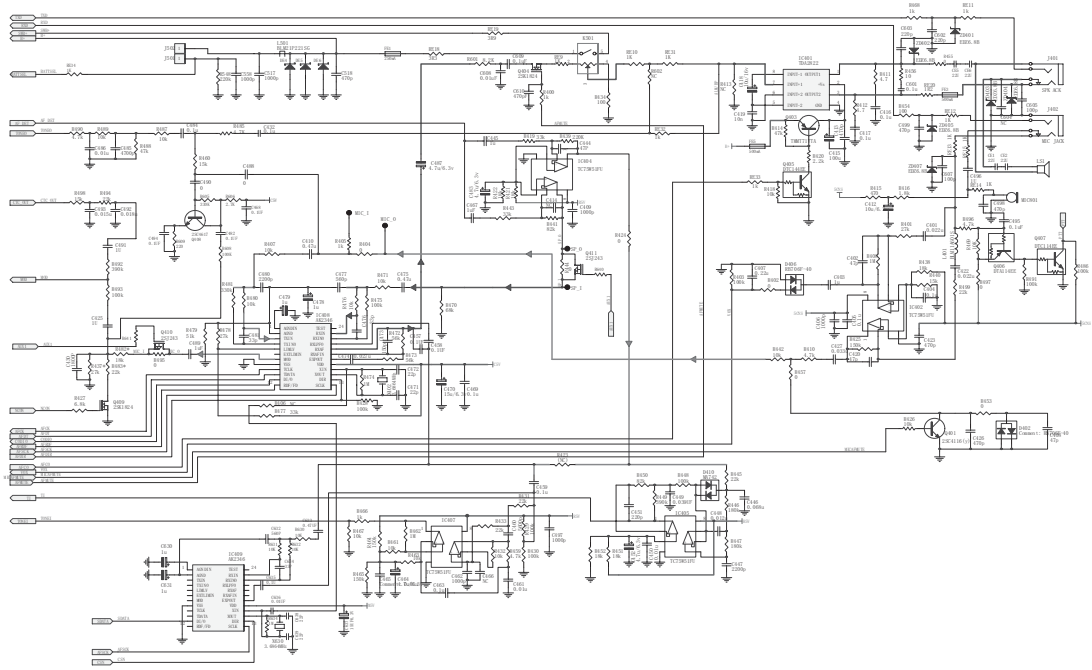


TC-700 Ex PLUS UHF Schematic Diagram (RF)



TC-700 Ex PLUS UHF Schematic Diagram
(Baseband & AF Amplifier)





Specifications

General	
Frequency Range	VHF: 136-174 MHz UHF: 420-470 MHz
Channel Capacity	16
Channel Spacing	25 /20/12.5 KHz
Frequency Stability	±2.5ppm
Operating Voltage	7.4V
Battery	1700mAh (Li-ion)
Battery Life (5-5-90 duty cycle)	About 14 Hours
Operating Temperature	-20℃~+50℃
Dimensions（H×W×D） (with battery, without antenna)	122×55×38mm
Weight (with antenna & battery)	426g
Receiver	
Sensitivity	0.25/0.35μV
Selectivity	70/60dB
Intermodulation	65dB
Spurious Response Rejection	70dB
S/N	45/40dB
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤5%
Transmitter	
RF Power Output	3W/0.5W
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
Modulation Limiting	±5/±4/±2.5 kHz
FM Noise	45/40dB
Modulation Distortion	≤5%

All Specifications are tested according to TIA/EIA-603, and subject to change without notice due to continuous development.