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Revision History

P/N	Date	Revision
	2004.6	
8130026500010	2006.10	IC302 is changed from TA7368F to KIA6278F; Q203/Q203 is changed from 3SK320 to 3SK318; Q102 is changed from 2SK2596 to RD01; Q105 is changed from 2SK2595 to RD07. Changes also be made on the corresponding peripheral circuits.

General

Manual Scope

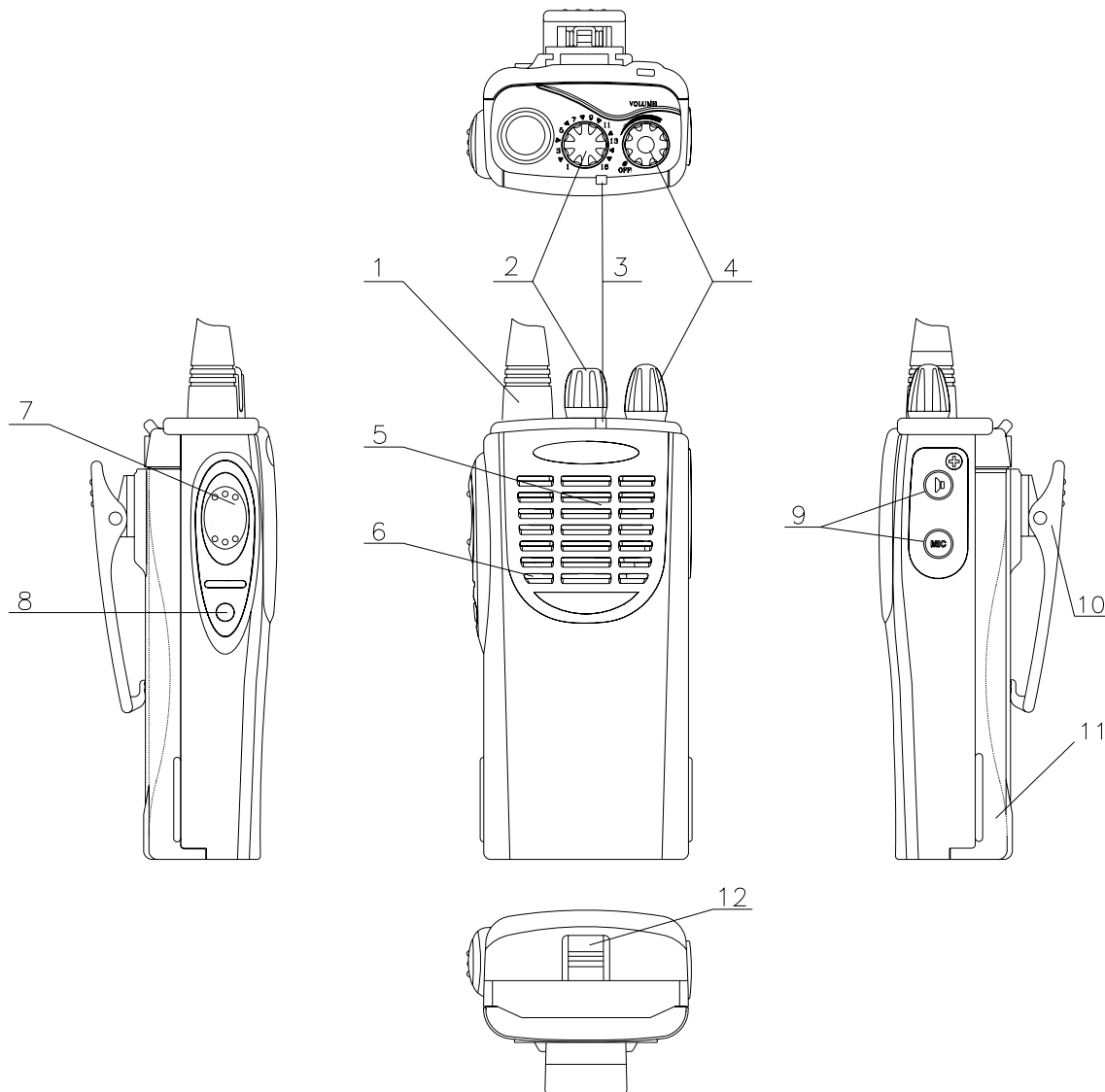
This manual is intended for use by experienced technicians familiar with similar types of communication equipment. It contains all service information required for the equipment and is current as of the publication date.

Safety and General Information

The following general safety precautions as would normally apply, should be observed during all phases of operation, service and repair of this equipment.

- This equipment should be serviced by qualified technicians only.
- DO NOT operate the transmitter of radio unless all RF connectors are secure and any open connectors are properly terminated.
- Do not modify the radio for any reason.
- Use only HYT original batteries and chargers.
- Use only the supplied or an approved antenna.
- 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.
- 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. Air bags inflate with great force. If a radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.
- Turn off your radio prior to entering any area with a potentially explosive atmosphere.
- Do not charge your battery in a potentially explosive atmosphere.
- 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.
- Do not expose the radio to direct sunlight over a long time, nor place it close to heating source.
- When using your radio, hold the radio in a vertical position with the microphone 3 to 4 centimeters away from your lips.
- If you wear a radio on your body when transmitting, ensure that the radio and its antenna are at least 2.5cm away from your body.

Radio Overview



1. Mode

User mode: Turn on the radio to enter the mode.

PC mode: Set and adjust radio data with PC software or programmer in this mode.

2. Parts description:

(1) Antenna

(2) Channel Selector Knob

Turn the selector knob to select channels 1-S (channel S can be programmed by dealer as scan function).

(3) LED Indicator

Used to indicate operation status of the radio. Different LED status indicates different operation status of the radio. (See the following table).

LED	Indicates:
Red LED glows	Transmitting
Red LED flashes	Low battery
Green LED glows	Monitoring or receiving
Orange LED glows	Transmitting 2-Tone/5-Tone signaling
Orange LED flashes	2-Tone/5-Tone standby

(4) 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.

(5) Speaker**(6) Microphone****(7) PTT (push to talk)**

Press and hold PTT to talk, release to receive.

(8) Monitor Key

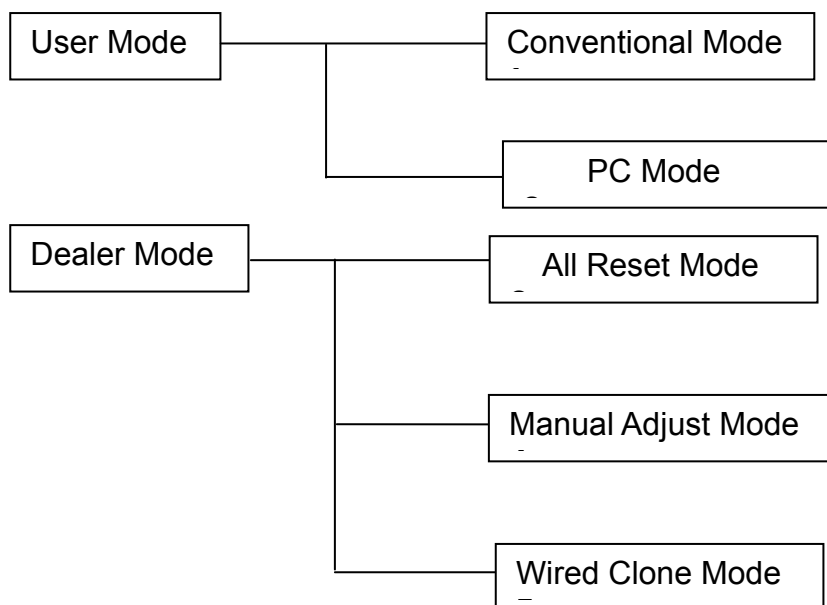
Press MONI key to monitor activities on the current channel.

(9) Speaker/Microphone Jack**(10) Belt Clip****(11) Battery****(12) Battery Latch**

Radio Modes

1. Frame of Radio Modes

Select the function from the modes and make settings according to your needs.



2. Description of Mode Functions

Mode	Function
Conventional Mode	This mode is used for normal operation.
PC Mode	This mode is used to read/write parameters from/to the radio and to make settings via PC.
Dealer Mode	This mode is used for the dealer to set the following modes: All Reset Mode; Manual Adjust Mode; Wired Clone Mode.
All Reset Mode	This mode is used to initialize the radio function settings, channel data and destination and to enable/disable manual adjust mode.
Manual Adjust Mode	This mode is used for the factory or dealer to make the following adjustment: frequency stability, RX sensitivity, squelch level, transmit power, CTCSS/CDCSS deviation, tone deviation and low battery alert reference value.
Wired Clone Mode	This mode is used to transfer data from one radio to another by an interface cable.
Test Mode	Spare

3. Keyboard Entry for Mode Startup

Mode		Key	Remarks
User Mode	Conventional Mode	Power on	Turn the radio on to enter conventional mode.
	PC Mode	Connect the radio with PC through interface cable.	You can program the radio via PC in user mode.
Dealer Mode	All Reset Mode	Turn the radio on while shorting out the two SELF points.	Short out the two SELF points while turning the radio on. Manual adjust mode is enabled. Press [PTT] and [MONI] simultaneously to reset.
			Press [PTT] for 3 seconds to disable manual adjust mode.
	Manual Adjust Mode	Press [PTT] for 3 seconds while turning the radio on. The radio enters manual adjust mode if this mode is enabled and enters user mode if manual adjust mode is prohibited.	In this mode, you can operate in menu mode. In main menu, press [PTT] to enter submenu.
			In submenus, press [PTT]/[MONI] to adjust upwards/downwards. Hold down [MONI] and then press [PTT] in 2 seconds to save the value and return to the upper menu.
	Wired Clone Mode	Press [MONI] for 3 seconds while turning the radio on.	Press [PTT] to transmit.

4. Prohibit Entering Manual Adjust Mode

Manual adjust mode can be prohibited by programming to prevent users from changing the parameter with self-programming function or with external programmer. The factory or the dealer should prohibit this mode after setting and cancel the prohibition before entering this mode.

5. Operation in Radio Modes

In the following modes, when the two SELF points are shorted out, the radio enters all reset mode; if the two points are disconnected, the radio enters other modes.

5.1 All Reset Mode

In this mode, you can initialize the radio parameters or enable/disable manual adjust mode.

Operation:

Short out the two SELF points, the radio enters all reset mode and manual adjust mode is enabled at the same time. Use channel selector to select radio destination number (Please refer to the initial data table for destination number of each model).

1. Press [PTT] and [MONI] simultaneously, the radio data are all reset.
2. Press [PTT] for 2 seconds, the manual adjust mode is prohibited.
3. Turn the radio off to exit from all reset mode and then enter other modes.

5.2 Manual Adjust Mode

In this mode, the factory or the dealer can adjust the radio parameters in menu mode.

Operation:

Turn the radio on while holding down the [PTT], three beeps sound after 2 seconds and green LED flashes. Release [PTT], a beep sounds and orange LED glows indicating that the radio enters manual adjust mode.

1. In the main menu, turn channel selector to select adjustment items. Press [PTT] to enter the submenu.
2. In the submenu, use channel selector to select among center, low, and high frequency or narrowband/wideband. Press [PTT] to transmit or adjust upwards and press [MONI] to adjust downwards.
3. After complete a setting, hold down [MONI] and then press [PTT] in 2 seconds, a beep sounds and orange LED glows. The setting values are saved and the radio returns to the previous menu. Press [PTT]/[MONI] more than 2 seconds to adjust setting values upwards/downwards. Turn the radio off to cancel the setting.
4. CH1-CH9 are defined as follows:

Note: Frequency stability and VCO lock voltage should be adjusted before your adjustment to ensure the reliability of the adjustment.

(1) Frequency stability and VCO lock voltage:

Adjust at center frequency CH1. Press [PTT] to switch between transmit and receive. Adjust frequency stability at VR1, receive VCO at TC2 and transmit VCO at TC1. Turn to low frequency (CH2) and high frequency (CH3) to check that the item is within the set range.

(2) RF BPF:

Adjust at center, low and high frequency. Adjust RF BPF at TC-201, TC-202 and TC-203. Pressing [PTT]/[MONI] can adjust upwards/downwards. Receiver sensitivity can be tested in this mode.

(3) Squelch level 9:

Adjust at center, low and high frequency. Pressing [PTT]/[MONI] can adjust upwards/downwards.

(4) Squelch level 3:

Adjust at center, low and high frequency. Pressing [PTT]/[MONI] can adjust upwards/downwards.

(5) Transmit power:

Adjust at center, low and high frequency. Pressing [PTT]/[MONI] can adjust upwards/downwards.

(6) CTCSS deviation:

Adjust at center, low and high frequency. Adjust wideband at group 0 and narrowband at group 2. CTCSS signal is 67.0Hz. Save the value. (Adjust wideband at group 1 and narrowband at group 3. CTCSS signal is 250.3Hz. Adjust CTCSS balance at VR500.)

Pressing [PTT]/[MONI] can adjust upwards/downwards. Adjust balance of CTCSS deviation at center, low, and high frequency.

(7) CDCSS deviation:

Adjust at center, low and high frequency. Adjust wideband at group 0 and narrowband at group 2. CDCSS is +023. Save the value. (Adjust wideband at group 1 and narrowband at group 3. CDCSS is +754. Adjust CDCSS balance at VR500.) Pressing [PTT]/[MONI] can adjust upwards/downwards. Adjust balance of CDCSS deviation at center, low, and high frequency.

(8) 2-Tone/5-Tone deviation:

Turn to any channel. Pressing [PTT]/[MONI] can adjust upwards/downwards. Tone signaling is 1860Hz.

(9) Low battery alert:

Turn to any channel. Adjust under maximum transmit power. Adjust power supply voltage to 80% of the rate voltage: 5.8V. Press [PTT]/[MONI] so that red LED flashes.

Note:

1. TC-265/365 radio has 16 channels. Every four adjacent channels is a group. There are four groups and they are marked as group 0, group 1, group 2 and group 3 respectively. The channel frequency of each group is arranged as center, low, high and center frequency. Channels of group 0 and group 1 are wideband and channels of group 2 and group 3 are narrowband. You can adjust low frequency of CTCSS/CDCSS (CTCSS: 67.0Hz, CDCSS: +023) at group 0 and group 2 and high frequency of CTCSS/CDCSS balance (CTCSS: 250.3Hz, CDCSS: +754) at group 1 and group 3.
2. If the radio destination is not included in the initial data table, you can select VHF or UHF according to the frequency range and IF and initialize the radio data through PC programming software.

5.3 PC Mode

You can make the following settings via PC. (Refer to the following table for more details.)

Machine serial number parameter;

General parameter;

User channel data;

Factory channel data (only for factory adjustment);

Center, low and high frequency (only for factory adjustment);

2-Tone frequency;

5-Tone frequency;

Initial data (only for factory adjustment);

Maintenance record.

Function Setting:

Function No.	Function Name	Setting (Defaults are underlined)	Display	Remarks
1	Monitor	OFF	1 OFF	Disable
		<u>Monitor Momentary</u>	1 1	AF channel opens when [MONI] is held down.
		Monitor Lock	1 2	Squelch opens when [MONI] is held down. Switches each time [MONI] is held down.
		SQ OFF Momentary	1 3	Squelch opens when [MONI] is held down and compatible signal is received.
2	Channel Scan	OFF	2 OFF	Disable
		<u>CO</u>	2 CO	Carrier operated scan (resume)
		TO	2 TO	Time operated scan (resume)
3	Priority	<u>OFF</u>	3 OFF	No priority setting
		ON	3 1	Set priority channel
4	Priority Channel	0, 1-16	4 1	Priority (Only valid when "fixed priority" is enabled)
		<u>0</u>	4 16	
5	Look Back A	0.5-5.0s	5 0.5	The period that radio checks a priority channel from a normal channel when there is no activity on priority channel.
		<u>1.0s</u> (step: 0.1s)	5 5.0	
6	RX Dwell Time	0.5-5.0s	6 0.5	Time until scan resumes when it is stopped by signal input (Only valid in time-operated scan).
		<u>3.0s</u> (step: 0.1s)	6 5.0	
7	Dropout Delay Time	0.1-5.0s	7 0.1	Time until scan resumes when there is no signal after it is stopped by signal input.
		<u>3.0s</u> (step: 0.1s)	7 5.0	
8	TX Dwell Time	0.1-5.0s	8 0.1	Time until scan resumes after transmit stops without compatible channel associated signaling; Scan resume time is decided by dropout delay time/RX dwell time and carrier-operated/time-operated scan mode if compatible channel associated signaling appears.
		<u>3.0s</u> (step: 0.1s)	8 5.0	
9	Talk Back	Current	9 0	It's the current channel during scan.
		<u>Start + Last Stopped</u>	9 1	It's the channel where scan resumes during scan; it's the channel where scan is stopped during scan.

		Priority + Last Stopped	9 2	It's priority channel during scan; It's the channel where scan is stopped during scan.
		Assignment + Last Stopped	9 3	It's the assignment channel during scan; It's the channel where scan is stopped during scan.
		Last call	9 4	It's the latest channel at pause during scan; It's the channel where scan is stopped during scan; It's the channel where scan starts if scan never stops.
		Last used	9 5	It's the latest transmit channel during scan; It's the channel where scan is stopped during scan; It's the channel scan starts if scan never stops.
10	Assignme nt Channel	0 OFF 1-16 ON <u>0</u>	10 OFF 10 1 10 16	You can select any channel as revert channel or talk back channel.
11	Squelch Level	0-9 <u>5</u> (step: 1)	11 0 11 9	Squelch level is set higher as the figure increases.
12	Time Out Timer	OFF 30-600s <u>60</u> (step:10s)	12 OFF 12 30 12 600	The maximum time of continuous transmission. When OFF, in order to protect power amplifier, time of continuous transmission is set as 10 minutes.
13	TOT Alert Time	OFF 10-180s <u>OFF</u> (step:5s)	13 OFF 13 10 13 180	TOT off. The radio will call an alert at the set time before TOT is time out and then call alerts every 10 seconds.
14	TOT Rekey Time	OFF 1-120s <u>OFF</u> (step:1s)	14 OFF 14 1 14 120	Transmission is allowed immediately after the radio returns to receive mode by TOT. Transmission is prohibited until preset time elapses.
15	TOT Reset Time	OFF 1-60s <u>OFF</u> (step:1s)	15 OFF 15 1 15 60	TOT is immediately reset after transmission stops. TOT won't reset until preset time elapses, even if transmission has stopped.
16	Select transmit power	Low	16 Low	Low transmit power is selected.
		<u>High</u>	16 High	High transmit power is selected.
17	Battery Save	Disable	17 OFF	No battery save function
		<u>Enable</u>	17 ON	Enable battery save function
18	Beep	OFF	18 OFF	No beep tone
		<u>ON</u>	18 ON	Beep tone sounds
19	Data Clone Enable	Disable	19 OFF	Prohibit data clone.
		<u>Enable</u>	19 ON	Permit data clone.
20	Manual Adjust Mode	Disable	20 OFF	Prohibit manual adjust mode.
		<u>Enable</u>	20 ON	Permit manual adjust mode.
21	End		21 End	

5.4 PC Adjust Mode

The following parameters can be adjusted through PC (only for factory adjustment):

Adjustment data;

Maintenance record.

5.5 Wired Clone Mode

Turn the radio on while holding down the [MONI], after two seconds, a beep sounds and red LED flashes indicating that the radio enters wired clone mode.

Operation:

- (1) Press [PTT] to begin cloning and red LED flashes.
- (2) Short out the clone mode points FCPY on PCB to enter factory clone mode.
- (3) Disconnect the clone mode points FCPY on PCB to enter dealer clone mode.
- (4) You can clone the following data in wired clone mode:

General parameter;

User channel data;

Factory channel data; (only available in factory clone mode)

Center, low and high frequency; (only available in factory clone mode)

2-Tone frequency;

5-Tone frequency;

Adjustment data; (only available in factory clone mode)

5.6 User Mode

Turn the radio on, a beep sounds and green LED flashes indicating that the radio enters user mode. This mode is used for normal operation.

6. Appendix: Initial data table

No.	Model	Frequency Range (MHz)	Center Frequency (MHz)	IF (MHz)	1CH (C)		2CH (L)		3CH (H)		4CH (C)	
					Rx (MHz)	Tx (MHz)	Rx (MHz)	Tx (MHz)	Rx (MHz)	Tx (MHz)	Rx (MHz)	Tx (MHz)
1	TC-265 (1)	136.000-150.000	143.000	+38.85	143.100	143.000	136.100	136.000	149.975	149.900	143.100	143.000
2	TC-265 (2)	136.000-174.000	155.000	+38.85	155.100	155.000	136.100	136.000	173.975	173.900	155.100	155.000
3	TC-265 (3)	146.000-174.000	160.000	+38.85	160.100	160.000	146.100	146.000	173.975	173.900	160.100	160.000
4	TC-265 (4)	150.000-174.000	162.000	+38.85	162.100	162.000	150.100	150.000	173.975	173.900	162.100	162.000
5	TC-265 (5)	155.000-164.000	160.000	+38.85	160.100	160.000	155.100	155.000	163.975	163.900	160.100	160.000
6	TC-265 (6)	216.000-223.000	219.000	+38.85	219.100	219.000	216.100	216.000	222.975	222.900	219.100	219.000
7	TC-365 (1)	330.000-350.000	340.000	-38.85	340.100	340.000	330.100	330.000	349.975	349.900	340.100	340.000
8	TC-365 (2)	350.000-370.000	360.000	-38.85	360.100	360.000	350.100	350.000	369.975	369.900	360.100	360.000
9	TC-365 (3)	370.000-390.000	380.000	-38.85	380.100	380.000	370.100	370.000	389.975	389.900	380.100	380.000
10	TC-365 (4)	400.000-420.000	410.000	-38.85	410.100	410.000	400.100	400.000	419.975	419.900	410.100	410.000
11	TC-365 (5)	400.000-430.000	415.000	-38.85	415.100	415.000	400.100	400.000	429.975	429.900	415.100	415.000
12	TC-365 (6)	420.000-450.000	435.000	-38.85	435.100	435.000	420.100	420.000	449.975	449.900	435.100	435.000
13	TC-365 (7)	440.000-470.000	455.000	-38.85	455.100	455.000	440.100	440.000	469.975	469.900	455.100	455.000
14	TC-365 (8)	450.000-470.000	460.000	-38.85	460.100	460.000	450.100	450.000	469.975	469.900	460.100	460.000
15	TC-365 (9)	470.000-490.000	480.000	-38.85	480.100	480.000	470.100	470.000	489.975	489.900	480.100	480.000
16	TC-365 (10)	480.000-520.000	500.000	-38.85	500.100	500.000	480.100	480.000	519.975	519.900	500.100	500.000
17	Factory adjustment (VHF)	100.000-500.000	300.000	+38.85	300.100	300.000	100.100	100.000	499.975	499.900	300.100	300.000
18	Factory adjustment (UHF)	200.000-600.000	400.000	-38.85	400.100	400.000	200.100	200.000	599.975	599.900	400.100	400.000

Circuit Description

1. Frequency configuration

The receiver utilizes double conversion superheterodyne. The first IF is 38.85MHz and the second IF is 450KHz. The first local oscillator signal is supplied by PLL circuit.

The PLL circuit in the transmitter generates the necessary frequencies. Fig.1 shows the circuit configuration.

TC-265 frequency range: 146MHz—174MHz

TC-365 frequency range: 440MHz—470MHz

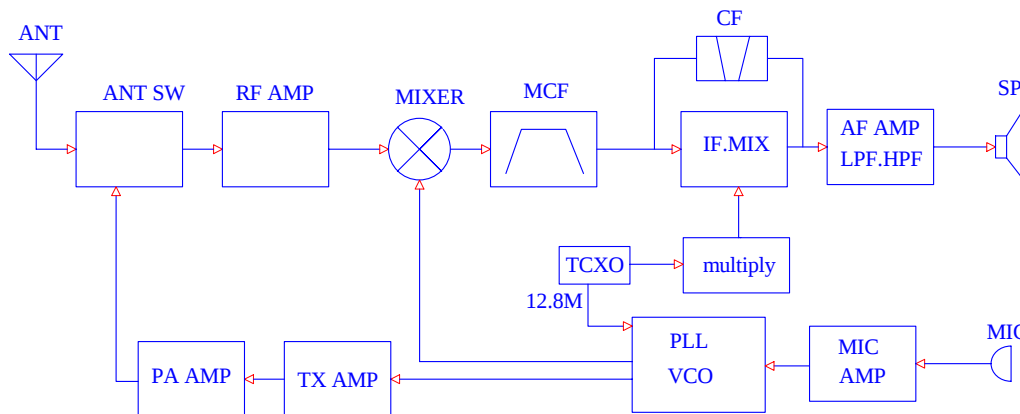


Fig. 1. Circuit configuration

2. Receiver

The receiver employs double conversion superheterodyne.

1-a) Front end RF amplifier (TC-265)

The input signal of antenna is applied to an RF amplifier (Q203) after passing through a transmit/receive switch circuit and a 3-stage low pass filter. The amplified signal is filtered through a band pass filter (a 3-stage LC filter) to eliminate unwanted signal before it is applied to the first mixer. The voltage of varactor is provided by MPU (IC403). (See Fig. 2-a)

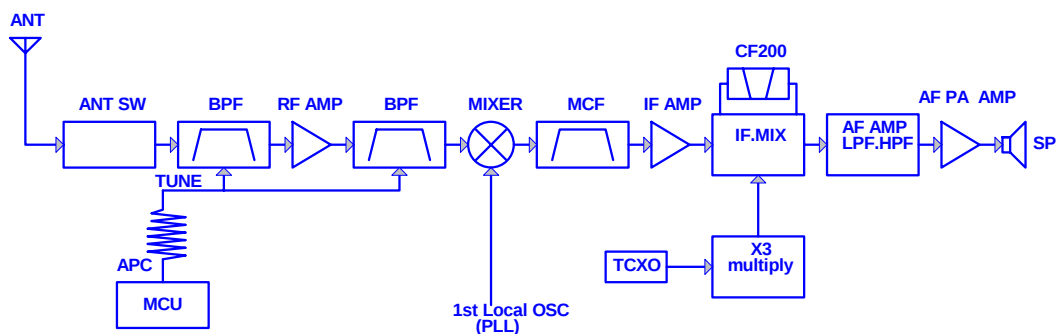


Fig. 2-a. Receiver configuration

1-b) Front end RF amplifier (TC-365)

The input signal of antenna is applied to an RF amplifier (Q122) after passing through a transmit/receive switch circuit and a 3-stage low pass filter. The amplified signal is filtered through a band pass filter (a 3-stage LC filter) to eliminate unwanted signal before it is applied to the first mixer. The voltage of varactor is provided by MPU (IC3). (See Fig. 2-b)

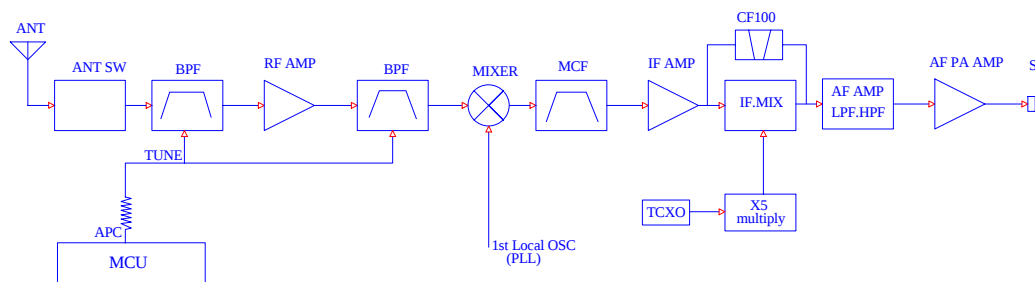


Fig. 2-b. Receiver configuration

2) First mixer

The signal from the RF amplifier is heterodyned with the first local oscillator signal from the PLL frequency synthesizer circuit at the first mixer to create a 38.85 MHz first IF (intermediate frequency) signal. The first IF signal is then applied to two monolithic crystal filters to further remove spurious signal.

3) IF amplifier

The first IF signal is amplified by Q201 (TC-265) /Q124 (TC-365), and then enters IF processing IC. The signal is heterodyned again with a second local oscillator signal within IF processing IC to create a 450KHz second IF signal. The second IF signal is then fed through a 450KHz ceramic filter to further eliminate unwanted signals before it is amplified and FM detected in IC200 (TC-265) /IC10 (TC-365).

4) AF amplifier

The recovered AF signal obtained from IF processing IC is amplified by IC300 (1/4) (TC-265) /IC9 (1/4) (TC-365), filtered by the IC300 (TC-265) /IC9 (TC-365) low-pass filter (2/4) and IC300 (TC-265) /IC9 (TC-365) high-pass filter (4/4), and de-emphasized by R47 and C56 (TC-265) / R36 and C53 (TC-365). The processed AF signal is then passed to a WIDE/NARROW switch and its output is applied to an AF volume control circuit and is amplified to a sufficient level to drive a loud speaker by an AF power amplifier.

5) Squelch

Part of the AF signal from IF processing IC re-enters IC, and the noise component is amplified and rectified by a filter and an amplifier to produce a DC voltage corresponding to the noise level.

The DC signal is injected to the analog port of the microprocessor. MCU compares the voltage with the preset value and determines whether to output sounds from the speaker. MCU sends a high level signal to the MUTE and AFCO lines and turns IC302(TC-265)/IC7(TC-365) on through Q302, Q304, Q305, Q306 and Q307 (TC-265) /Q115, Q116, Q117, Q118 (TC-365). (See Fig.3)

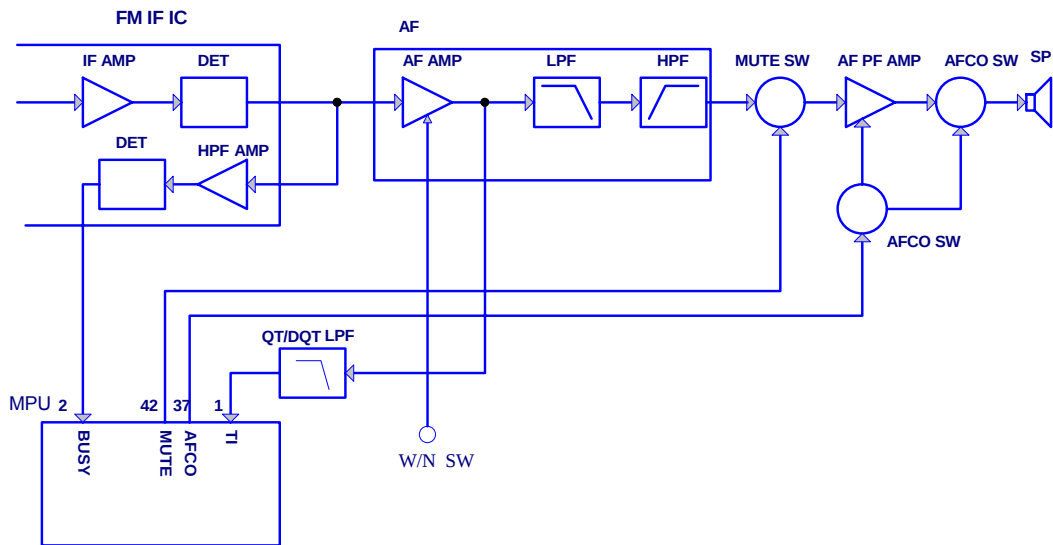


Fig. 3. AF amplifier and squelch

6) Receiving signaling

CTCSS/CDCSS

MCU output signal is filtered by 300Hz low-pass filter and the filtered signal is input to the microprocessor. MCU determines whether the CTCSS or CDCSS matches the preset value, and controls the MUTE and AF CO and the speaker sounds output according to the squelch results.

2-Tone/5-Tone

IF processing IC output signal is filtered by IC9 (TC-265) /IC14 (TC-365) and then applied to the microprocessor. MCU compares TTS with the preset value and controls MUTE and AF CO and speaker output according to squelch results.

3. PLL frequency synthesizer

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

1) PLL

The frequency step of the PLL circuit is 2.5 or 6.25 KHz. A 12.8MHz reference oscillator signal is divided at PLL by a mixed counter to produce 2.5 or 6.25 KHz reference frequency. The voltage controlled oscillator (VCO) output signal is buffer amplified, and then divided in PLL by a dual-module programmable counter. The divided signal is compared in phase with the 2.5 or 6.25 KHz reference signal in the phase comparator in PLL. The output signal from the phase comparator is filtered through a low-pass filter and passed to the VCO to control the oscillator frequency. (See Fig. 4)

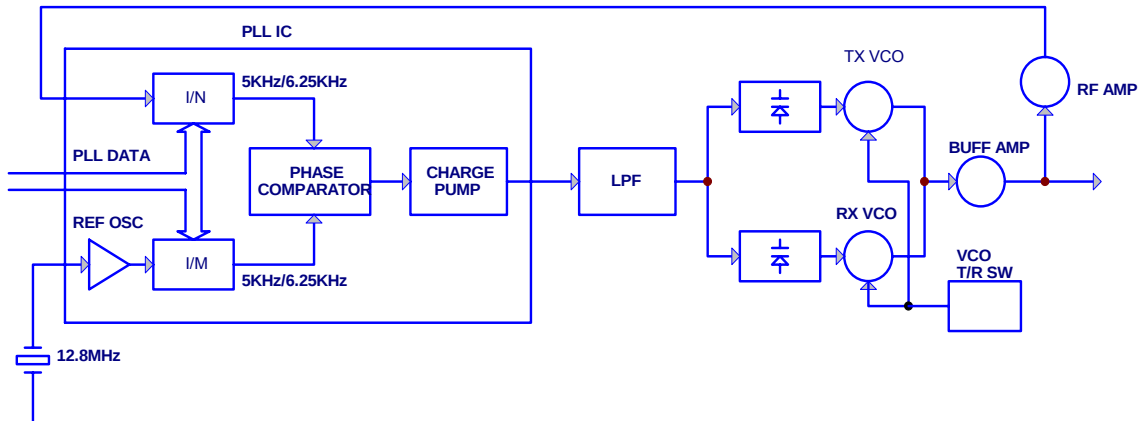


Fig. 4. PLL circuit

2) VCO

The operating frequency is generated by Q4(TC-265) /Q141 (TC-365) in transmit mode and Q3 (TC-265) /Q142 (TC-365) in receive mode. The oscillator frequency is controlled through applying the VCO control voltage, which is obtained from the phase comparator to the varactor diodes. The T/R pin is set high in receive mode causing Q5 and Q7 to turn Q4 off, and turn Q3 on (TC-265) /Q140 and Q138 to turn Q141 off, and turn Q142 on(TC-365). The T/R pin is set low in transmit mode. The outputs are amplified by Q6 (TC-265) /Q139 (TC-365) and sent to the buffer amplifiers.

3) Unlock Detector

If a low level signal appears at the LD pin of PLL IC, an unlock condition occurs, and the DC voltage obtained from D7, R2 (TC-265) /D114, R501 (TC-365) , and PLL IC causes the voltage applied to the UL pin of the microprocessor to go low. When the microprocessor detects this condition, the transmitter is disabled, ignoring the push-to-talk switch input signal. (See Fig. 5)

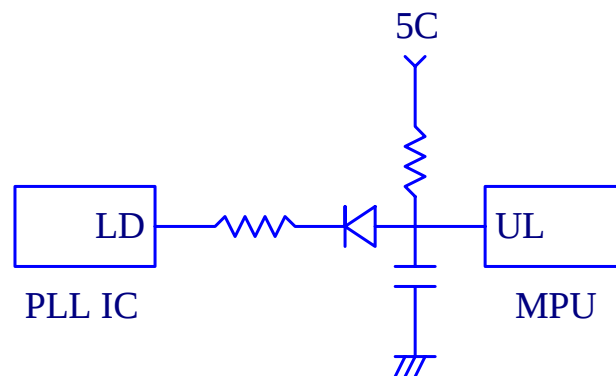


Fig. 5. Unlock detector circuit

4. Transmitter

1) Transmit audio

The modulation signal from the microphone is amplified by IC500 (TC-265) /IC1(TC-365) (1/2), and then passes through a pre-emphasis circuit and a 3KHz low-pass filter. The resulting signal goes to the VCO for direct FM modulation. (See Fig. 6)

2) CTCSS/CDCSS encoder

A necessary signal for CTCSS/CDCSS encoding is generated by MCU and FM-modulated to the PLL IC reference signal. Since the reference OSC does not modulate the loop characteristic frequency or higher, modulation is performed at the VCO side by adjusting the balance. (See Fig. 6)

3) 2-Tone/5-Tone encoder

The necessary signal for 2-Tone/5-Tone encoding is generated by MCU. The signal is sent to IC500(TC-265) /IC1 (TC-365) (2/2), and then applied to 3KHz low-pass filter. The resulting signal is applied to VCO for direct modulation (See fig. 6).

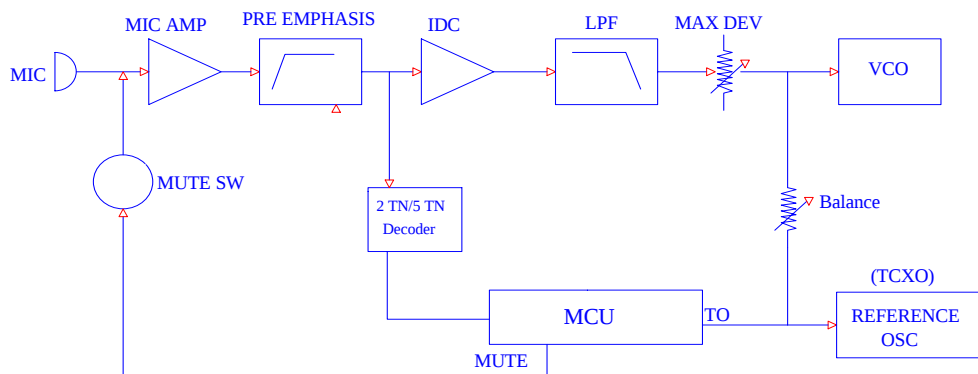


Fig. 6. Transmit audio CTCSS/CDCSS

4-a) RF amplifier (TC-265)

The RF signal obtained from the VCO buffer amplifier Q100 is amplified by Q101 and Q102. This amplified signal is passed to the power amplifier, Q102 and Q105, which consists of a 2-stage FET amplifier and is capable of producing up to 4.5W of RF power (See Fig. 7-a).

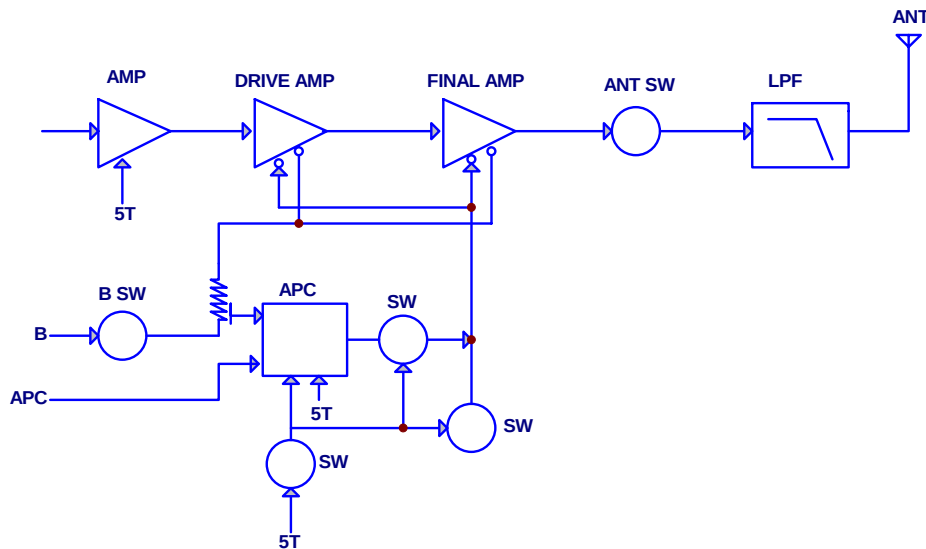


Fig. 7-a. APC system

4-b) RF amplifier (TC-365)

The RF signal obtained from the VCO buffer amplifier Q136 is amplified by Q135 and Q134. This amplified signal is passed to the power amplifier, Q131 and Q129, which consists of a 2-stage FET amplifier and is capable of producing up to 4W of RF power (See Fig. 7-b)

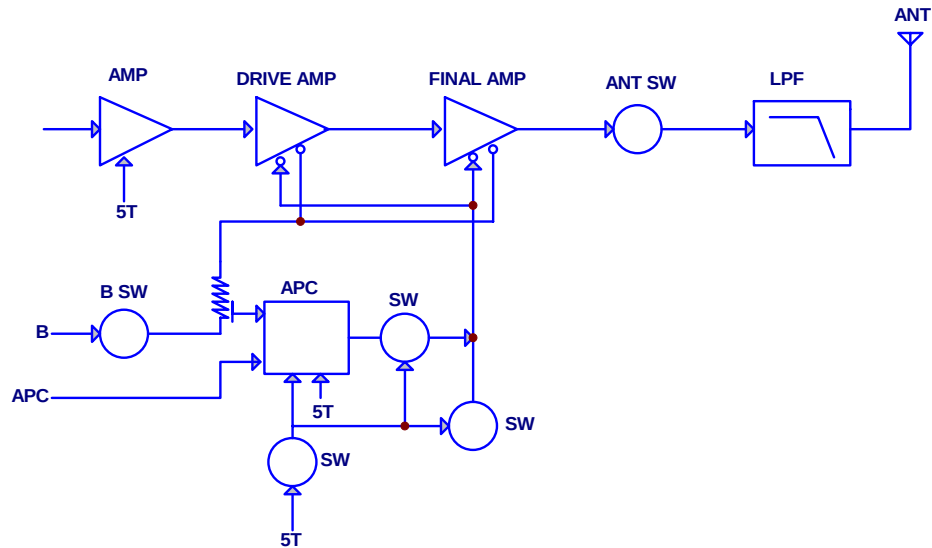


Fig. 7-b. APC system

5) ANT switch and LPF

The RF amplifier output signal is passed through a low-pass filter network to filter the second harmonic components and then applied to a transmit/receive switching circuit before it is passed to the antenna terminal. The transmit/receive switching circuit is comprised of D100, D200 and D101. D102 and D103 (TC-265) / D108, D112 and D111. D109 and D110 (TC-365) is turned on (conductive) in transmit mode and off (isolated) in receive mode.

6) APC

The automatic power control (APC) circuit stabilizes the transmitter output power at a predetermined level by sensing the drain current of the final amplifier Field Effect Transistor (FET). The voltage comparison circuit compares the voltage obtained from the above drain current with a reference voltage which is set using the microprocessor. The APC voltage is proportional to the difference

between the sensed voltage and the reference voltage output from IC100 (TC-265) / IC11 (TC-365) (1/2). This output voltage controls the gate of the FET power amplifier, which keeps the transmitter output power be varied by the microprocessor which in turn changes the reference voltage and hence, the output power.

7) Temperature protection circuit

When the thermistor TH100 (TC-265) / TH102 (TC-365) reaches about 80°C, the protection circuit turns on Q107 (TC-265) / Q126 (TC-365) to protect the final-stage amplifier from overheating.

5. Power supply

A 5V reference power supply [5M] for the control circuit is derived from an internal battery. This reference power supply is used to provide a 5V supply in transmit mode [5T], a 5V supply in receive mode [5R], and a 5V supply common in both modes [5C] based on the control signal sent from the microprocessor.

6. Control system

The MCU operates at 7.37MHz. This oscillator has a circuit that shifts the frequency according to the EEPROM data.

CPU Pins

CPU control M38034M4

Pin No.	Port name	I/O	Function
1	TI	I	CTCSS/CDCSS input
2	BUSY	I	Input busy signal
3	BATT	I	Detect battery voltage
4	NC	I	NC
5	TO	O	Output CTCSS/CDCSS
6	BEEP	O	Beep output
7	NC	I	NC
8	ENC0	I	Input encode
9	ENC1	I	Input encode
10	ENC2	I	Input encode
11	ENC3	I	Input encode
12	TSI	I	AF signaling decode input
13	PTT	I	[PTT] input, connect with RXD
14	TXD	O	RS-232C output
15	RXD	I	RS-232C input
16	MONI	I	[MONI] input
17	SELF	I	Self-Program L: set up model
18	CNVSS	I	Connect VSS
19	RST	I	Reset input
20	INT0	I	Power detection
21	NC	I	NC
22	XIN	I	Oscillator (7.3728MHz)
23	XOUT	O	Oscillator
24	VSS	I	Grounding
25	SHIFT	O	Clock frequency shift H: enable
26	PABC	O	MOS FET power H: enable
27	WNRC	O	Audio reference sensitivity L: narrow
28	WNTC	O	Max deviation control H: narrow
29	NC	I	NC
30	SDA	I/O	EEPROM data cable
31	SCL	O	EEPROM clock cable
32	UL	I	PLL unlock detector L: unlock
33	DT	O	Common data output
34	CK	O	Common clock output
35	LE	O	PLL IC H: lock up
36	5MC	O	Power control except for CPU and EEPROM L: unlock
37	AFCO	O	AF amplifier H: unlock
38	RX	O	TX/RX VCO H: receive
39	GLLED	O	Green LED control H: light
40	RLED	O	Red LED control H: light
41	SAVE	O	Battery save control H: battery save OFF
42	MUTE	O	mute control H: mic squelch L: AF squelch
43	5RC	O	Receiver power control L: unlock
44	5TC	O	Transmitter power control H: unlock
45	NC	I	NC
46	NC	I	NC

47	NC	I	NC
48	NC	I	NC
49	NC	I	NC
50	NC	I	NC
51	NC	I	NC
52	NC	I	NC
53	NC	I	NC
54	NC	I	NC
55	TSO	O	AF signaling encode output
56	APC	O	TX: APC output RX: BPF tune output
57	VCC	I	CPU power supply 5V
58	VREF	I	Connect with VCC
59	AVSS	I	Connect with VSS
60	NC	I	NC
61	FCPY	I	Factory clone L: model set
62	MODE	I	Additional mode L: enable
63	NC	I	NC
64	TIBI	I	CTCSS/CDCSS exterior circuit central input

Part List 1

TC-265 Part List 1

No.	Material No.	Description	Qty	Ref.No.	Address
1	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R291	B3E
2	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R327	T2E
3	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R404	T2B
4	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R431	T4J
5	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R531	T1G
6	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R539	T5I
7	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R542	T3G
8	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R710	T2C
9	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R714	T2C
10	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R826	T4D
11	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R334	T2F
12	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R412	T3B
13	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R430	T4J
14	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R530	T4H
15	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R537	T5I
16	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R538	T5H
17	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R405	T4B
18	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R407	T2E
19	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R413	T2D
20	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R508	T3E
21	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R536	T5J
22	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R6	T4C
23	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R608	T1A
24	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R703	T4I
25	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R713	T4D
26	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R810	T4D
27	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R811	T4D
28	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R812	T4D
29	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R814	T4D
30	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R140	T1I
31	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R511	T3F
32	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R516	T3F
33	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R601	T2A
34	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R603	T2A
35	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R605	T1B
36	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R701	T4H
37	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R146	T1H
38	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R323	T2B
39	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R325	T3A
40	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R341	T1F

Part List 1

TC-265 Part List 1

No.	Material No.	Description	Qty	Ref.No.	Address
41	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R401	T4B
42	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R408	T2E
43	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R533	T4I
44	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R142	T2I
45	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R715	T5E
46	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R717	T5E
47	3001051240000	Chip resistor 0402 120KΩ J 1/	1	R509	T1C
48	3001051520000	Chip resistor 0402 1.5KΩ J 1/	1	R525	T4G
49	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R513	T2C
50	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R526	T3G
51	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R527	T3G
52	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R135	T1I
53	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R136	T1I
54	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R137	T1I
55	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R138	T1I
56	3001051540020	Chip resistor 0402 150KΩ J 1/	1	R518	T2C
57	3001051820000	Chip resistor 0402 1.8KΩ J 1/	1	R522	T3F
58	3001051820000	Chip resistor 0402 1.8KΩ J 1/	1	R534	T5I
59	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R529	T4G
60	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R145	T1H
61	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R318	T2B
62	3001051850000	Chip resistor 0402 1.8MΩ J 1/	1	R512	T3E
63	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R331	T1E
64	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R418	T2C
65	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R504	T2D
66	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R718	T4D
67	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R411	T2E
68	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R332	T1F
69	3001052720000	Chip resistor 0402 2.7KΩ J 1/	1	R143	T1I
70	3001052740000	Chip resistor 0402 270KΩ J 1/	1	R316	T2A
71	3001053310010	Chip resistor 0402 330Ω J 1/1	1	R144	T1H
72	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R125	T2H
73	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R510	T3E
74	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R521	T3F
75	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R548	T2D
76	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R336	T2F
77	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R515	T3F
78	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R519	T3F
79	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R520	T3F
80	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R400	T2B

Part List 1

TC-265 Part List 1

No.	Material No.	Description	Qty	Ref.No.	Address
81	3001053930000	Chip resistor 0402 39KΩ J 1/1	1	R607	T2B
82	3001054710000	Chip resistor 0402 470Ω J 1/1	1	R535	T5H
83	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R119	T2J
84	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R416	T4C
85	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R500	T2C
86	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R501	T2C
87	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R507	T4C
88	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R541	T5C
89	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R141	T1H
90	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R320	T2A
91	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R330	T2D
92	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R414	T4K
93	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R415	T4K
94	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R421	T4J
95	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R423	T4J
96	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R600	T1B
97	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R606	T1B
98	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R333	T1F
99	3001055130010	Chip resistor 0402 51KΩ J 1/1	1	R524	T3F
100	3001055130010	Chip resistor 0402 51KΩ J 1/1	1	R716	T5E
101	3001055610000	Chip resistor 0402 560Ω J 1/1	1	R124	T2H
102	3001055620000	Chip resistor 0402 5.6KΩ J 1/	1	R604	T1A
103	3001055630000	Chip resistor 0402 56KΩ J 1/1	1	R335	T2F
104	3001056810000	Chip resistor 0402 680Ω J 1/1	1	R122	T2J
105	3001056810000	Chip resistor 0402 680Ω J 1/1	1	R126	T2J
106	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R503	T2D
107	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R505	T2D
108	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R523	T3F
109	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R702	T4H
110	3001056830000	Chip resistor 0402 68KΩ J 1/1	1	R313	T2A
111	3001056840000	Chip resistor 0402 680KΩ J 1/	1	R602	T1A
112	3001057540000	Chip resistor 0402 750KΩ J 1/	1	R528	T4G
113	3001058210000	Chip resistor 0402 820Ω J 1/1	1	R506	T3E
114	3001058210000	Chip resistor 0402 820Ω J 1/1	1	R532	T4H
115	3001058220000	Chip resistor 0402 8.2KΩ J 1/	1	R339	T1D
116	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R502	T5C
117	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R118	B3G
118	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R123	B4I
119	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R213	B5E
120	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R222	B4E

Part List 1

TC-265 Part List 1

No.	Material No.	Description	Qty	Ref.No.	Address
121	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R232	B5F
122	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R240	B4H
123	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R28	B1C
124	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R29	B2C
125	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R310	T2F
126	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R311	B4A
127	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R329	B3A
128	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R419	B2I
129	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R5	B1C
130	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R540	T5B
131	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R609	T3D
132	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R7	B1C
133	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R711	T3B
134	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R109	B4G
135	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R200	B5C
136	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R233	B4F
137	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R3	B2C
138	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R417	T4K
139	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R104	B2G
140	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R14	B3D
141	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R223	B3F
142	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R103	B2F
143	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R2	B1B
144	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R20	B2D
145	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R205	B5B
146	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R225	B3E
147	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R27	B1F
148	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R328	B3D
149	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R4	B2C
150	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R409	T3B
151	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R420	B2I
152	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R427	B2H
153	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R101	B2F
154	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R15	B1D
155	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R214	B3E
156	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R308	B3A
157	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R432	B2H
158	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R435	B2H
159	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R712	T2B
160	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R17	B2E

Part List 1

TC-265 Part List 1

No.	Material No.	Description	Qty	Ref.No.	Address
161	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R207	B5B
162	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R21	B1D
163	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R226	B4E
164	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R230	B5F
165	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R237	B4F
166	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R238	B4G
167	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R239	B4H
168	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R24	B1F
169	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R296	B4F
170	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R298	B4E
171	3001061050010	Chip resistor 0603 1MΩ J 1/10	1	R304	B3A
172	3001061230000	Chip resistor 0603 12KΩ J 1/1	1	R312	B3B
173	3001061240010	Chip resistor 0603 120KΩ J 1/	1	R23	B2F
174	3001061240010	Chip resistor 0603 120KΩ J 1/	1	R306	B3B
175	3001061240010	Chip resistor 0603 120KΩ J 1/	1	R340	B3C
176	3001061510000	Chip resistor 0603 150Ω J 1/1	1	R10	B1C
177	3001061510000	Chip resistor 0603 150Ω J 1/1	1	R13	B1D
178	3001061510000	Chip resistor 0603 150Ω J 1/1	1	R231	B5F
179	3001061520000	Chip resistor 0603 1.5KΩ J 1/	1	R108	B3F
180	3001061530010	Chip resistor 0603 15KΩ J 1/1	1	R433	B2H
181	3001061530010	Chip resistor 0603 15KΩ J 1/1	1	R434	B1H
182	3001061540000	Chip resistor 0603 150KΩ J 1/	1	R1	B1B
183	3001061540000	Chip resistor 0603 150KΩ J 1/	1	R133	T1I
184	3001061540000	Chip resistor 0603 150KΩ J 1/	1	R134	T1I
185	3001061800000	Chip resistor 0603 18Ω J 1/10	1	R112	B3F
186	3001061810000	Chip resistor 0603 180Ω J 1/1	1	R403	B2K
187	3001061820000	Chip resistor 0603 1.8KΩ J 1/	1	R114	B4G
188	3001061830010	Chip resistor 0603 18KΩ J 1/1	1	R305	B3A
189	3001061840000	Chip resistor 0603 180KΩ J 1/	1	R202	B4B
190	3001061840000	Chip resistor 0603 180KΩ J 1/	1	R206	B4B
191	3001061840000	Chip resistor 0603 180KΩ J 1/	1	R297	B4F
192	3001061850000	Chip resistor 0603 1.8MΩ J 1/	1	R517	T3F
193	3001062210000	Chip resistor 0603 220Ω J 1/1	1	R102	B2F
194	3001062210000	Chip resistor 0603 220Ω J 1/1	1	R210	B5C
195	3001062210000	Chip resistor 0603 220Ω J 1/1	1	R216	B3E
196	3001062210000	Chip resistor 0603 220Ω J 1/1	1	R402	B2K
197	3001062220000	Chip resistor 0603 2.2KΩ J 1/	1	R220	B3E
198	3001062220000	Chip resistor 0603 2.2KΩ J 1/	1	R406	B2J
199	3001062230000	Chip resistor 0603 22KΩ J 1/1	1	R321	B3C
200	3001062240000	Chip resistor 0603 220KΩ D 1/	1	R322	B3C

Part List 1

TC-265 Part List 1

No.	Material No.	Description	Qty	Ref.No.	Address
201	3001062710000	Chip resistor 0603 270Ω J 1/1	1	R127	B4J
202	3001062710000	Chip resistor 0603 270Ω J 1/1	1	R128	B4J
203	3001062710000	Chip resistor 0603 270Ω J 1/1	1	R18	B1F
204	3001062710000	Chip resistor 0603 270Ω J 1/1	1	R22	B1E
205	3001062720000	Chip resistor 0603 2.7KΩ J 1/	1	R209	B5C
206	3001062720000	Chip resistor 0603 2.7KΩ J 1/	1	R422	B2H
207	3001062720000	Chip resistor 0603 2.7KΩ J 1/	1	R428	B3H
208	3001062740000	Chip resistor 0603 270KΩ D 1/	1	R317	B3C
209	3001063300000	Chip resistor 0603 33Ω J 1/10	1	R212	B3E
210	3001063310010	Chip resistor 0603 330Ω J 1/1	1	R110	B4F
211	3001063310010	Chip resistor 0603 330Ω J 1/1	1	R147	B3F
212	3001063310010	Chip resistor 0603 330Ω J 1/1	1	R148	B3G
213	3001063310010	Chip resistor 0603 330Ω J 1/1	1	R30	B2B
214	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R100	B2F
215	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R105	B3F
216	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R106	B3F
217	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R120	B4G
218	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R203	B4B
219	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R204	B5B
220	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R303	B3B
221	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R424	B2I
222	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R425	B2I
223	3001063330010	Chip resistor 0603 33KΩ J 1/1	1	R338	B3A
224	3001063330010	Chip resistor 0603 33KΩ J 1/1	1	R514	T3E
225	3001063340000	Chip resistor 0603 330KΩ J 1/	1	R8	B2C
226	3001063920000	Chip resistor 0603 3.9KΩ J 1/	1	R107	B3F
227	3001063920000	Chip resistor 0603 3.9KΩ J 1/	1	R201	B4B
228	3001063930010	Chip resistor 0603 39KΩ J 1/1	1	R12	B2A
229	3001063940000	Chip resistor 0603 390KΩ D 1/	1	R315	B3C
230	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R116	B3G
231	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R117	B3H
232	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R228	B5E
233	3001064710000	Chip resistor 0603 470Ω J 1/1	1	R211	B4D
234	3001064720000	Chip resistor 0603 4.7KΩ J 1/	1	R26	B2G
235	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R11	B2B
236	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R115	B3G
237	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R121	B4H
238	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R19	B2E
239	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R309	B4B
240	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R314	B3C

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No.	Material No.	Description	Qty	Ref.No.	Address
241	3001065620010	Chip resistor 0603 5.6KΩ J 1/	1	R301	B3A
242	3001065620010	Chip resistor 0603 5.6KΩ J 1/	1	R302	B3A
243	3001065620010	Chip resistor 0603 5.6KΩ J 1/	1	R324	B3C
244	3001065620010	Chip resistor 0603 5.6KΩ J 1/	1	R326	B3C
245	3001065630000	Chip resistor 0603 56KΩ J 1/1	1	R307	B3A
246	3001065620010	Chip resistor 0603 5.6KΩ J 1/	1	R25	B2F
247	3001065620010	Chip resistor 0603 5.6KΩ J 1/	1	R9	B1C
248	3001066830000	Chip resistor 0603 68KΩ J 1/1	1	R16	B2E
249	3001066840000	Chip resistor 0603 680KΩ J 1/	1	R208	B5C
250	3001068210010	Chip resistor 0603 820Ω J 1/1	1	R429	B3I
251	3001068220000	Chip resistor 0603 8.2KΩ J 1/	1	R410	B2K
252	3001068220000	Chip resistor 0603 8.2KΩ J 1/	1	R426	B2K
253	3001068230010	Chip resistor 0603 82KΩ J 1/1	1	R292	B4E
254	3001068230010	Chip resistor 0603 82KΩ J 1/1	1	R293	B3E
255	3001068230010	Chip resistor 0603 82KΩ J 1/1	1	R294	B4E
256	3001068230010	Chip resistor 0603 82KΩ J 1/1	1	R295	B3E
257	3001069130000	Chip resistor 0603 91KΩ D 1/1	1	R300	B3C
258	40990000000050	Fuse 046602.5NR 2.5A/	1	F500	T4J
259	3001080590000	Chip resistor 1206 0.5Ω J 1/4	1	R997	T2J
260	3001080590000	Chip resistor 1206 0.5Ω J 1/4	1	R998	T2J
261	3001080590000	Chip resistor 1206 0.5Ω J 1/4	1	R999	T2J
262	3002991530020	Trimmer resistor φ3.0mm 15KΩ ±2	1	VR501	T3E
263	3002996830020	Trimmer resistor φ3.0mm 68KΩ ±2	1	VR1	T4A
264	3002996830020	Trimmer resistor φ3.0mm 68KΩ ±2	1	VR500	T2D
265	3003992220000	Thermister 0603 2.2KΩ J 10	1	TH500	T2C
266	3003994730000	Thermister 0603 47KΩ J 100	1	TH100	B4H
267	3005061020010	Resistor array 0603 1KΩ*4 J 1/1	1	CP1	B1A
268	3101050300000	Chip capacitor 0402 3PF B 50V	1	C409	T3B
269	3101051000020	Chip capacitor 0402 10PF J 50V	1	C412	T3B
270	3101051000020	Chip capacitor 0402 10PF J 50V	1	C415	T3B
271	3101051000020	Chip capacitor 0402 10PF J 50V	1	C516	T3F
272	3101051010030	Chip capacitor 0402 100PF J 50	1	C134	T1I
273	3101051010030	Chip capacitor 0402 100PF J 50	1	C605	T1A
274	3101051020010	Chip capacitor 0402 1000PF K 5	1	C112	T2J
275	3101051020010	Chip capacitor 0402 1000PF K 5	1	C115	T2J
276	3101051020010	Chip capacitor 0402 1000PF K 5	1	C130	T2H
277	3101051020010	Chip capacitor 0402 1000PF K 5	1	C139	T2I
278	3101051020010	Chip capacitor 0402 1000PF K 5	1	C288	B3E
279	3101051020010	Chip capacitor 0402 1000PF K 5	1	C314	T2B
280	3101051020010	Chip capacitor 0402 1000PF K 5	1	C403	T2C

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No.	Material No.	Description	Qty	Ref.No.	Address
281	3101051020010	Chip capacitor 0402 1000PF K 5	1	C404	T2C
282	3101051020010	Chip capacitor 0402 1000PF K 5	1	C407	T4A
283	3101051020010	Chip capacitor 0402 1000PF K 5	1	C410	T4A
284	3101051020010	Chip capacitor 0402 1000PF K 5	1	C413	T3D
285	3101051020010	Chip capacitor 0402 1000PF K 5	1	C414	T4B
286	3101051020010	Chip capacitor 0402 1000PF K 5	1	C416	T5A
287	3101051020010	Chip capacitor 0402 1000PF K 5	1	C517	T3F
288	3101051020010	Chip capacitor 0402 1000PF K 5	1	C521	T4G
289	3101051020010	Chip capacitor 0402 1000PF K 5	1	C602	T2B
290	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C336	T1F
291	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C418	T4K
292	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C420	T4K
293	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C422	T4J
294	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C425	T4J
295	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C508	T3E
296	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C515	T3E
297	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C703	T4I
298	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C327	T2E
299	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C398	T2E
300	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C400	T2B
301	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C525	T4I
302	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C533	T2C
303	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C54	T4A
304	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C600	T1B
305	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C603	T2A
306	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C709	T5E
307	3101051230000	Chip capacitor 0402 0.012UF K	1	C604	T2A
308	3101051230000	Chip capacitor 0402 0.012UF K	1	C606	T2A
309	3101051800010	Chip capacitor 0402 18PF J 50V	1	C707	T5E
310	3101051800010	Chip capacitor 0402 18PF J 50V	1	C708	T5E
311	3101052200010	Chip capacitor 0402 22PF J 50V	1	C706	T5E
312	3101052210010	Chip capacitor 0402 220PF K 50	1	C530	T5J
313	3101052210010	Chip capacitor 0402 220PF K 50	1	C531	T5I
314	3101052230000	Chip capacitor 0402 0.022UF K	1	C518	T4G
315	3101052730000	Chip capacitor 0402 0.027UF K	1	C500	T2C
316	3101052730000	Chip capacitor 0402 0.027UF K	1	C501	T2C
317	3101053320010	Chip capacitor 0402 3300PF K 5	1	C512	T3F
318	3101053330000	Chip capacitor 0402 0.033UF K	1	C318	T3A
319	3101053330000	Chip capacitor 0402 0.033UF K	1	C503	T5C
320	3101053330000	Chip capacitor 0402 0.033UF K	1	C702	T4H

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No.	Material No.	Description	Qty	Ref.No.	Address
321	3101053920000	Chip capacitor 0402 3900PF K 2	1	C502	T5C
322	3101053920000	Chip capacitor 0402 3900PF K 2	1	C701	T4H
323	3101054710010	Chip capacitor 0402 470PF K 50	1	C132	T1I
324	3101054710010	Chip capacitor 0402 470PF K 50	1	C141	T2I
325	3101054710010	Chip capacitor 0402 470PF K 50	1	C411	T2E
326	3101054710010	Chip capacitor 0402 470PF K 50	1	C506	T3G
327	3101054710010	Chip capacitor 0402 470PF K 50	1	C510	T3E
328	3101054710010	Chip capacitor 0402 470PF K 50	1	C513	T3F
329	3101054710010	Chip capacitor 0402 470PF K 50	1	C526	T4I
330	3101054710010	Chip capacitor 0402 470PF K 50	1	C536	T3E
331	3101054710010	Chip capacitor 0402 470PF K 50	1	C538	T3F
332	3101054730000	Chip capacitor 0402 0.047UF K	1	C319	T2A
333	3101054730000	Chip capacitor 0402 0.047UF K	1	C334	T2E
334	3101054730000	Chip capacitor 0402 0.047UF K	1	C335	T2F
335	3101054730000	Chip capacitor 0402 0.047UF K	1	C511	T3F
336	3101054730000	Chip capacitor 0402 0.047UF K	1	C514	T3F
337	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C333	T1E
338	3101055600000	Chip capacitor 0402 56PF J 50V	1	C338	T2B
339	3101055620010	Chip capacitor 0402 5600PF K 2	1	C308	T2A
340	3101056820000	Chip capacitor 0402 6800PF K 2	1	C704	T4H
341	3101056830040	Chip capacitor 0402 68nF K 16V	1	C705	T5E
342	3101060200010	Chip capacitor 0603 2PF B 50V	1	C216	B4D
343	3101060200010	Chip capacitor 0603 2PF B 50V	1	C223	B5D
344	3101060200010	Chip capacitor 0603 2PF B 50V	1	C243	B4E
345	3101062590010	Chip capacitor 0603 2.5PF C 50	1	C254	B4F
346	3101062590010	Chip capacitor 0603 2.5PF C 50	1	C257	B4H
347	3101060300010	Chip capacitor 0603 3PF B 50V	1	C148	B5J
348	3101060400010	Chip capacitor 0603 4PF B 50V	1	C222	B3E
349	3101060500010	Chip capacitor 0603 5PF B 50V	1	C241	B4F
350	3101060500010	Chip capacitor 0603 5PF B 50V	1	C37	B2F
351	3101060600010	Chip capacitor 0603 6PF B 50V	1	C233	B3E
352	3101060600010	Chip capacitor 0603 6PF B 50V	1	C237	B4E
353	3101060600010	Chip capacitor 0603 6PF B 50V	1	C35	B1F
354	3101060800010	Chip capacitor 0603 8PF B 50V	1	C248	B5E
355	3101060900010	Chip capacitor 0603 9PF B 50V	1	C129	B4I
356	3101060900010	Chip capacitor 0603 9PF B 50V	1	C144	B4J
357	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C43	B2F
358	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C44	B2F
359	3101061000000	Chip capacitor 0603 10PF J 50V	1	C138	B5J
360	3101061000000	Chip capacitor 0603 10PF J 50V	1	C14	B2C

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No.	Material No.	Description	Qty	Ref.No.	Address
361	3101061000000	Chip capacitor 0603 10PF J 50V	1	C202	B4B
362	3101061000000	Chip capacitor 0603 10PF J 50V	1	C215	B4D
363	3101061000000	Chip capacitor 0603 10PF J 50V	1	C48	B2D
364	3101061000000	Chip capacitor 0603 10PF J 50V	1	C9	B2C
365	3101061010010	Chip capacitor 0603 100PF J 50	1	C2	B1A
366	3101061010010	Chip capacitor 0603 100PF J 50	1	C3	B1A
367	3101061010010	Chip capacitor 0603 100PF J 50	1	C32	B2E
368	3101061010010	Chip capacitor 0603 100PF J 50	1	C6	B1B
369	3101061020000	Chip capacitor 0603 1000PF K 5	1	C101	B2F
370	3101061020000	Chip capacitor 0603 1000PF K 5	1	C102	B2F
371	3101061020000	Chip capacitor 0603 1000PF K 5	1	C104	B3F
372	3101061020000	Chip capacitor 0603 1000PF K 5	1	C105	B4F
373	3101061020000	Chip capacitor 0603 1000PF K 5	1	C106	B4G
374	3101061020000	Chip capacitor 0603 1000PF K 5	1	C107	B4G
375	3101061020000	Chip capacitor 0603 1000PF K 5	1	C109	B3G
376	3101061020000	Chip capacitor 0603 1000PF K 5	1	C111	B3G
377	3101061020000	Chip capacitor 0603 1000PF K 5	1	C114	B3G
378	3101061020000	Chip capacitor 0603 1000PF K 5	1	C116	B3G
379	3101061020000	Chip capacitor 0603 1000PF K 5	1	C118	B4G
380	3101061020000	Chip capacitor 0603 1000PF K 5	1	C119	B4H
381	3101061020000	Chip capacitor 0603 1000PF K 5	1	C120	B3I
382	3101061020000	Chip capacitor 0603 1000PF K 5	1	C124	B3I
383	3101061020000	Chip capacitor 0603 1000PF K 5	1	C133	B4J
384	3101061020000	Chip capacitor 0603 1000PF K 5	1	C137	B4J
385	3101061020000	Chip capacitor 0603 1000PF K 5	1	C218	B3E
386	3101061020000	Chip capacitor 0603 1000PF K 5	1	C220	B3E
387	3101061020000	Chip capacitor 0603 1000PF K 5	1	C236	B3E
388	3101061020000	Chip capacitor 0603 1000PF K 5	1	C239	B4E
389	3101061020000	Chip capacitor 0603 1000PF K 5	1	C245	B4F
390	3101061020000	Chip capacitor 0603 1000PF K 5	1	C246	B5E
391	3101061020000	Chip capacitor 0603 1000PF K 5	1	C249	B5E
392	3101061020000	Chip capacitor 0603 1000PF K 5	1	C250	B5F
393	3101061020000	Chip capacitor 0603 1000PF K 5	1	C251	B4F
394	3101061020000	Chip capacitor 0603 1000PF K 5	1	C253	B4F
395	3101061020000	Chip capacitor 0603 1000PF K 5	1	C256	B4G
396	3101061020000	Chip capacitor 0603 1000PF K 5	1	C260	B4G
397	3101061020000	Chip capacitor 0603 1000PF K 5	1	C27	B2A
398	3101061020000	Chip capacitor 0603 1000PF K 5	1	C286	B4F
399	3101061020000	Chip capacitor 0603 1000PF K 5	1	C29	B2E
400	3101061020000	Chip capacitor 0603 1000PF K 5	1	C299	B5F

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No.	Material No.	Description	Qty	Ref.No.	Address
401	3101061020000	Chip capacitor 0603 1000PF K 5	1	C30	B2E
402	3101061020000	Chip capacitor 0603 1000PF K 5	1	C31	B1G
403	3101061020000	Chip capacitor 0603 1000PF K 5	1	C40	B1F
404	3101061020000	Chip capacitor 0603 1000PF K 5	1	C402	B2K
405	3101061020000	Chip capacitor 0603 1000PF K 5	1	C406	B2K
406	3101061020000	Chip capacitor 0603 1000PF K 5	1	C41	B2E
407	3101061020000	Chip capacitor 0603 1000PF K 5	1	C423	B2H
408	3101061020000	Chip capacitor 0603 1000PF K 5	1	C427	B2H
409	3101061020000	Chip capacitor 0603 1000PF K 5	1	C45	B2G
410	3101061020000	Chip capacitor 0603 1000PF K 5	1	C46	B2F
411	3101061020000	Chip capacitor 0603 1000PF K 5	1	C49	B2F
412	3101061020000	Chip capacitor 0603 1000PF K 5	1	C52	B2A
413	3101061020000	Chip capacitor 0603 1000PF K 5	1	C528	B2J
414	3101061020000	Chip capacitor 0603 1000PF K 5	1	C529	T5I
415	3101061020000	Chip capacitor 0603 1000PF K 5	1	C7	B2D
416	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C123	B3I
417	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C19	B3D
418	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C20	B3D
419	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C201	B4C
420	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C210	B5B
421	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C214	B5C
422	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C217	B4E
423	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C221	B4D
424	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C305	B3B
425	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C312	B3C
426	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C39	B2E
427	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C42	B1F
428	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C421	B2I
429	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C1	B1B
430	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C110	B4G
431	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C125	B3I
432	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C207	B4B
433	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C209	B5B
434	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C211	B5B
435	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C213	B5B
436	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C224	B5D
437	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C225	B5B
438	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C235	B4E
439	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C302	B3C
440	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C303	B4B

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No.	Material No.	Description	Qty	Ref.No.	Address
441	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C322	B3C
442	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C4	B2C
443	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C522	T4G
444	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C53	B2A
445	3101061050020	Chip capacitor 0603 1UF K 25V	1	C121	B3J
446	3101061050020	Chip capacitor 0603 1UF K 25V	1	C313	B3A
447	3101061050020	Chip capacitor 0603 1UF K 25V	1	C417	T5B
448	3101061050020	Chip capacitor 0603 1UF K 25V	1	C424	B2J
449	3101061050020	Chip capacitor 0603 1UF K 25V	1	C429	B3H
450	3101061050020	Chip capacitor 0603 1UF K 25V	1	C430	B3J
451	3101061050020	Chip capacitor 0603 1UF K 25V	1	C505	T3E
452	3101061100010	Chip capacitor 0603 11PF J 50V	1	C128	B4I
453	3101061200000	Chip capacitor 0603 12PF J 50V	1	C108	B3F
454	3101061200000	Chip capacitor 0603 12PF J 50V	1	C147	B4K
455	3101061200000	Chip capacitor 0603 12PF J 50V	1	C261	B4H
456	3101061210000	Chip capacitor 0603 120PF J 50	1	C26	B4C
457	3101061230000	Chip capacitor 0603 0.012UF K	1	C316	B3C
458	3101061300000	Chip capacitor 0603 13PF J 50V	1	C140	B4J
459	3101061500010	Chip capacitor 0603 15PF J 50V	1	C100	B2F
460	3101061500010	Chip capacitor 0603 15PF J 50V	1	C113	B3G
461	3101061500010	Chip capacitor 0603 15PF J 50V	1	C212	B5C
462	3101061500010	Chip capacitor 0603 15PF J 50V	1	C219	B3E
463	3101061530000	Chip capacitor 0603 0.015UF K	1	C301	B3B
464	3101061600000	Chip capacitor 0603 16PF J 50V	1	C255	B4G
465	3101061800000	Chip capacitor 0603 18PF J 50V	1	C252	B4F
466	3101061800000	Chip capacitor 0603 18PF J 50V	1	C36	B1F
467	3101061800000	Chip capacitor 0603 18PF J 50V	1	C38	B1E
468	3101062000000	Chip capacitor 0603 20PF J 50V	1	C146	B4J
469	3101062000000	Chip capacitor 0603 20PF J 50V	1	C238	B4E
470	3101062000000	Chip capacitor 0603 20PF J 50V	1	C259	B4H
471	3101062200010	Chip capacitor 0603 22PF J 50V	1	C103	B3F
472	3101062200010	Chip capacitor 0603 22PF J 50V	1	C142	B4J
473	3101062210000	Chip capacitor 0603 220PF J 50	1	C205	B4B
474	3101062210000	Chip capacitor 0603 220PF J 50	1	C206	B4B
475	3101062230020	Chip capacitor 0603 0.022UF K	1	C520	T4G
476	3101062240000	Chip capacitor 0603 0.22UF K 1	1	C12	B1C
477	3101062240000	Chip capacitor 0603 0.22UF K 1	1	C8	B1C
478	3101062400010	Chip capacitor 0603 24PF J 50V	1	C247	B5F
479	3101062700010	Chip capacitor 0603 27PF J 50V	1	C135	B4I
480	3101062730000	Chip capacitor 0603 0.027UF K	1	C524	T4G

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No.	Material No.	Description	Qty	Ref.No.	Address
481	3101063000010	Chip capacitor 0603 30PF J 50V	1	C234	B3E
482	3101063300000	Chip capacitor 0603 33PF J 50V	1	C28	B4C
483	3101063300000	Chip capacitor 0603 33PF J 50V	1	C47	B2F
484	3101063310000	Chip capacitor 0603 330PF J 50	1	C17	B2D
485	3101063320000	Chip capacitor 0603 3300PF K 5	1	C509	T3E
486	3101063900000	Chip capacitor 0603 39PF J 50V	1	C136	B4I
487	3101063900000	Chip capacitor 0603 39PF J 50V	1	C33	B1G
488	3101064700000	Chip capacitor 0603 47PF J 50V	1	C10	B2C
489	3101064710000	Chip capacitor 0603 470PF K 50	1	C131	B4I
490	3101064710000	Chip capacitor 0603 470PF K 50	1	C203	B4B
491	3101064710000	Chip capacitor 0603 470PF K 50	1	C204	B4B
492	3101064710000	Chip capacitor 0603 470PF K 50	1	C287	B4E
493	3101064710000	Chip capacitor 0603 470PF K 50	1	C532	B5H
494	3101064720000	Chip capacitor 0603 4700PF K 5	1	C25	B1C
495	3101065600000	Chip capacitor 0603 56PF J 50V	1	C126	B4I
496	3101066800000	Chip capacitor 0603 68PF J 50V	1	C16	B4D
497	3101066800000	Chip capacitor 0603 68PF J 50V	1	C51	B4C
498	3101066820000	Chip capacitor 0603 6800PF K 5	1	C300	B3B
499	3101068200000	Chip capacitor 0603 82PF J 50V	1	C208	B5B
500	3101068220000	Chip capacitor 0603 8200PF K 5	1	C309	B3C
501	3199060758000	Chip capacitor 0603 0.75PF B 5	1	C34	B2E
502	3102992000000	Trimmer capacitor 3.2*2.5*1.25mm	1	TC201	B4G
503	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC1	B1E
504	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC2	B1G
505	3215106470000	Bobbin inductor 0603 47nH LLQ16	1	L210	B4H
506	3215106560000	Bobbin inductor 0603 56nH LLQ16	1	L203	B5E
507	3215106560000	Bobbin inductor 0603 56nH LLQ16	1	L208	B4F
508	3215106560000	Bobbin inductor 0603 56nH LLQ16	1	L209	B4G
509	3215106560000	Bobbin inductor 0603 56nH LLQ16	1	L214	B4E
510	3210209102010	Bobbin inductor 1210 1uH LQH32M	1	L118	T2K
511	3210107330000	Bobbin inductor 0805 33nH LQW2B	1	L107	B3H
512	3210108230010	Bobbin inductor 1206 23nH LQW31	1	L10	B1F
513	3210108330000	Bobbin inductor 1206 33nH LQW31	1	L11	B2E
514	3213306682000	Multi-layer inductor 0603 6.8uH MLF1	1	L15	B1G
515	3213306682000	Multi-layer inductor 0603 6.8uH MLF1	1	L6	B2E
516	3213306682000	Multi-layer inductor 0603 6.8uH MLF1	1	L8	B2E
517	3213306682000	Multi-layer inductor 0603 6.8uH MLF1	1	L9	B1G
518	3213212102000	Multi-layer inductor 1008 1uH NLV25T	1	L104	B3H
519	3213212102000	Multi-layer inductor 1008 1uH NLV25T	1	L2	B2C
520	3213212222000	Multi-layer inductor 1008 2.2uH NLV2	1	L112	B4J

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No.	Material No.	Description	Qty	Ref.No.	Address
521	3213212561000	Multi-layer inductor 1008 0.56uH NLV	1	L200	B3E
522	3213212561000	Multi-layer inductor 1008 0.56uH NLV	1	L215	B3F
523	3214412751000	Inductor 1008 0.75uH C2520	1	L204	B4E
524	3213212821000	Multi-layer inductor 1008 0.82uH NLV	1	L201	B3E
525	3221506601000	Chip ferriter bead 0603 600Ω±25	1	L1	B2D
526	3221506601000	Chip ferriter bead 0603 600Ω±25	1	L102	B4F
527	3221506601000	Chip ferriter bead 0603 600Ω±25	1	L14	B1E
528	3221506601000	Chip ferriter bead 0603 600Ω±25	1	L401	T4B
529	3221506601000	Chip ferriter bead 0603 600Ω±25	1	L500	T4I
530	3221506601000	Chip ferriter bead 0603 600Ω±25	1	L7	B1D
531	3221507221000	Chip ferriter bead 0805 220Ω±25	1	L105	B3H
532	3221507221000	Chip ferriter bead 0805 220Ω±25	1	L501	B2J
533	3221507221000	Chip ferriter bead 0805 220Ω±25	1	L502	T5J
534	3221507600000	Chip ferriter bead 0805 60Ω±25%	1	L109	B3I
535	3210306101000	Multi-layer inductor 0603 100nH LQG1	1	L12	B2F
536	3210306270000	Multi-layer inductor 0603 27nH LQG18	1	L103	B3G
537	3210306470000	Multi-layer inductor 0603 47nH LQG18	1	L13	B2E
538	3210406471000	Multi-layer inductor 0603 470nH LQM1	1	L4	B2D
539	3210306680000	Multi-layer inductor 0603 68nH LQG18	1	L101	B4G
540	3210306820000	Multi-layer inductor 0603 82nH LQG18	1	L100	B2G
541	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L111	B4I
542	3231351650000	Air-core inductor E2-0.35*1.6*5TL	1	L108	B3I
543	3231351650000	Air-core inductor E2-0.35*1.6*5TL	1	L114	B4J
544	3231351650000	Air-core inductor E2-0.35*1.6*5TL	1	L117	B4J
545	3231351660000	Air-core inductor E2-0.35*1.6*6TR	1	L115	B4J
546	3231351670000	Air-core inductor E2-0.35*1.6*7TR	1	L113	B4I
547	3231501630000	Air-core inductor E2R 0.5*1.6*3T(	1	L110	B3I
548	3212106121000	Multi-layer inductor 0603 120nH HK16	1	L202	B3E
549	3212106221000	Multi-layer inductor 0603 220nH HK16	1	L16	B4D
550	3212106221000	Multi-layer inductor 0603 220nH HK16	1	L17	B4C
551	3303010500290	Switching diode 1SS372(TE85L.F	1	D500	T4H
552	3304010100190	Varactor 1SV214(T3.F.M)	1	D5	B1E
553	3304010101090	Varactor 1SV283(TPH3.F.	1	D1	B2E
554	3304010101090	Varactor 1SV283(TPH3.F.	1	D2	B2E
555	3304010101090	Varactor 1SV283(TPH3.F.	1	D3	B1G
556	3304010101090	Varactor 1SV283(TPH3.F.	1	D4	B1G
557	3307110100080	LED KPT-1608SGC	1	D401	T4K
558	3307110100070	LED KPT-1608SRC	1	D400	T4K
559	3303030100010	Switching diode DAN222(TL) SOT	1	D501	T4H
560	3303020100020	Switching diode MA2S11100L SS-	1	D6	B2F

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No.	Material No.	Description	Qty	Ref.No.	Address
561	3303020100020	Switching diode MA2S11100L SS-	1	D7	B1B
562	3303020100070	Switching diode MA2Z07700L SOD	1	D101	B4I
563	3303020100080	Switching diode MA2S07700L 1.7	1	D100	B3F
564	3303020100080	Switching diode MA2S07700L 1.7	1	D102	B4I
565	3303020100080	Switching diode MA2S07700L 1.7	1	D103	B4I
566	3303020100080	Switching diode MA2S07700L 1.7	1	D200	B3F
567	3399990000220	Diode UDZS3.0B SOD-323	1	D8	B2A
568	3304060300050	Varactor HVC350BTRF-E R	1	D201	B4E
569	3304060300050	Varactor HVC350BTRF-E R	1	D202	B5F
570	3304060300050	Varactor HVC350BTRF-E R	1	D203	B4F
571	3304060300050	Varactor HVC350BTRF-E R	1	D204	B4G
572	3304060300050	Varactor HVC350BTRF-E R	1	D205	B4G
573	3399990000110	Diode ISR154-400 SOD-1	1	D502	B2K
574	3401001000080	Transistor 2SA1362-GR (TE85.	1	Q305	T2E
575	3499000000110	Transistor 2SC4619TLP SOD-3	1	Q201	B5C
576	3406001000090	Transistor 2SC4988FRTR-E NP	1	Q101	B3G
577	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q1	B2C
578	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q100	B2F
579	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q2	B1C
580	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q6	B2F
581	3411002000020	Transistor 2SC5343EG NPN AU	1	Q300	B3C
582	3411002000020	Transistor 2SC5343EG NPN AU	1	Q501	T3E
583	3411002000020	Transistor 2SC5343EG NPN AU	1	Q502	T3F
584	3411002000020	Transistor 2SC5343EG NPN AU	1	Q503	T4H
585	3411002000020	Transistor 2SC5343EG NPN AU	1	Q8	B2F
586	3403007000000	Transistor DTA114EE(TL) PNP	1	Q200	B5B
587	3403007000020	Transistor DTA114YE(TL) PNP	1	Q402	T4B
588	3403007000040	Transistor DTA123JE PNP Roh	1	Q408	B2J
589	3403007000060	Transistor DTA143ZE PNP Roh	1	Q504	T4D
590	3403007000070	Transistor DTA144EE PNP Roh	1	Q109	T2H
591	3403007000070	Transistor DTA144EE PNP Roh	1	Q303	B3A
592	3403008000010	Transistor DTC114EE(TL) NPN	1	Q108	T2G
593	3403008000010	Transistor DTC114EE(TL) NPN	1	Q400	B2K
594	3403008000010	Transistor DTC114EE(TL) NPN	1	Q401	B2K
595	3403008000030	Transistor DTC114TE NPN Roh	1	Q107	T2H
596	3403008000070	Transistor DTC144EE(TL) NPN	1	Q304	T1D
597	3403008000070	Transistor DTC144EE(TL) NPN	1	Q306	T1F
598	3403008000070	Transistor DTC144EE(TL) NPN	1	Q403	T4B
599	3499000000150	Transistor UMC4(NTR) NPN/PN	1	Q7	B1F
600	3403009000010	Transistor UMG3N(N-TR) NPN	1	Q404	B2I

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No.	Material No.	Description	Qty	Ref.No.	Address
601	3403009000010	Transistor UMG3N(N-TR) NPN	1	Q407	B3I
602	3503040000010	FET UPA672T-T1-A N-	1	Q405	B2H
603	3499000000170	Transistor UFMMT591 PNP SOT	1	Q406	B2I
604	3499000000170	Transistor UFMMT591 PNP SOT	1	Q409	B3I
605	3499000000180	Transistor UFMMT717 PNP SOT	1	Q104	T2J
606	3503010000010	FET 2SJ243-T1-A P-c	1	Q5	B1E
607	3503020000010	FET 2SK1588-T1-AZ N	1	Q307	T2F
608	3503020000030	FET 2SK1824-T1-A N-	1	Q103	T2J
609	3503020000030	FET 2SK1824-T1-A N-	1	Q106	T2H
610	3503020000030	FET 2SK1824-T1-A N-	1	Q302	B3D
611	3503020000030	FET 2SK1824-T1-A N-	1	Q500	T3G
612	3502010000090	FET 2SK1875-V(TE85L	1	Q3	B1F
613	3502010000090	FET 2SK1875-V(TE85L	1	Q4	B2E
614	3504990000010	FET RD01MUS2-T113 P	1	Q102	B3G
615	3504990000020	FET RD07MVS1-T112 P	1	Q105	B3H
616	3501020000030	FET 3SK318YB-TL-E-Q	1	Q202	B3E
617	3501020000030	FET 3SK318YB-TL-E-Q	1	Q203	B5F
618	3608015000000	Power management IC(regulator) XC6201P5	1	IC404	T4A
619	3619006005220	Low voltage detection IC R3111N451C-TR	1	IC402	T2B
620	3604007004810	PLL MB1511PFV-G-BND-	1	IC1	B2B
621	3605008005010	Operation amplifier NJM2100V 2	1	IC500	T3G
622	3612031000510	Memory AT24C16AN-10SU-2	1	IC401	T5C
623	3603008005040	Operation amplifier NJM2902V 4	1	IC300	B3B
624	3605008005070	Operation amplifier NJM2904V 2	1	IC100	T2I
625	3605008005070	Operation amplifier NJM2904V 2	1	IC301	T2A
626	3603002005440	IF processing IC TA31136FNG(EL	1	IC200	B4B
627	3602028004610	AF amplification IC KIA6278F-EL/P	1	IC302	T1E
628	3605002054590	Operation amplifier TA75W01FU(TE12	1	IC8	T1B
629	3618005001140	AF decoder CMX823E4 Audio	1	IC9	T4E
630	3609004005280	Reset IC PST9140NR MITSU	1	IC400	T2B
631	5202010100030	Socket 10P AXK6F10345YJ	1	CN400	T4J
632	3701012850010	Temperature compensate crystal oscillator 12.8MHz NSA0	1	X1	B2B
633	3701737230020	Crystal 7.3728MHz DSX530G	1	X400	T3B
634	3802388540010	Crystal filter 38.850MHz MFT3	1	XF200	B4D
635	4100265100000	TC265 PCB FR4 1.2/6L	1		
636	3104072250010	Ta-capacitor 0805 2.2UF M 10V	1	C311	T3A
637	3104072250010	Ta-capacitor 0805 2.2UF M 10V	1	C507	T3E
638	3104072250010	Ta-capacitor 0805 2.2UF M 10V	1	C523	T5H
639	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C127	T2G
640	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C15	B1C

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No.	Material No.	Description	Qty	Ref.No.	Address
641	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C200	B4B
642	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C23	B2B
643	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C304	B4A
644	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C307	B3C
645	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C408	T4A
646	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C527	T5H
647	3104076840010	Ta-capacitor 0805 0.68UF M 10	1	C18	B1D
648	3104201070010	Ta-capacitor 2220 100UF M 10V	1	C337	T2G
649	3210306221000	Multi-layer inductor 0603 220nH LQM1	1	L400	T3D
650	3210306221000	Multi-layer inductor 0603 220nH LQM1	1	L402	T3D
651	3210306221000	Multi-layer inductor 0603 220nH LQM1	1	L403	T3B
652	3210306221000	Multi-layer inductor 0603 220nH LQM1	1	L5	B3D
653	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C331	T1E
654	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C5	B2C
655	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C50	B2G
656	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C504	T2C
657	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C519	T3G
658	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C601	T2A
659	3104071560020	Ta-capacitor 0805 15UF M 6.3V	1	C332	T1F
660	3101063330030	Chip capacitor 0603 0.033UF K	1	C306	B3B
661	3101063330030	Chip capacitor 0603 0.033UF K	1	C320	B3C
662	3101063330030	Chip capacitor 0603 0.033UF K	1	C321	B3C
663	3101066810020	Chip capacitor 0603 680PF K 50	1	C24	B1E
664	3001061020000	Chip resistor 0603 1KΩ D 1/10	1	R229	B5E
665	3610045000750	SCM M38037M6H-273FP#U	1	IC403	T3D
666	3701357930010	Crystal 3.579545MHz NX125	1	X2	T5F

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No.	Material No.	Description	Qty	Ref.No.	Address
1	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R105	T4J
2	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R141	T2G
3	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R149	T5H
4	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R150	T5B
5	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R152	T3G
6	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R153	T3E
7	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R207	T2I
8	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R291	B3E
9	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R613	T1A
10	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R615	T3B
11	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R616	T3D
12	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R617	T2C
13	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R78	T2B
14	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R801	T2E
15	3001050000000	Chip resistor 0402 0Ω J 1/16W	1	R826	T4D
16	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R66	T2F
17	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R86	T3B
18	3001051000000	Chip resistor 0402 10Ω J 1/16	1	R91	T4K
19	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R104	T4J
20	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R140	T4J
21	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R145	T5H
22	3001051010000	Chip resistor 0402 100Ω J 1/1	1	R147	T5I
23	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R146	T5J
24	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R308	T1A
25	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R314	T4D
26	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R403	T4I
27	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R500	T5C
28	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R79	T4B
29	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R81	T2E
30	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R810	T4D
31	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R811	T5D
32	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R812	T4D
33	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R814	T4D
34	3001051020010	Chip resistor 0402 1KΩ J 1/16	1	R87	T2D
35	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R121	T3F
36	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R126	T3F
37	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R210	T1I
38	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R301	T2A
39	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R303	T2A
40	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R305	T2A

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No.	Material No.	Description	Qty	Ref.No.	Address
41	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R401	T4H
42	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R402	T4H
43	3001051030000	Chip resistor 0402 10KΩ J 1/1	1	R611	T3B
44	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R143	T4I
45	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R204	T1H
46	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R72	T1F
47	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R75	T4B
48	3001051040010	Chip resistor 0402 100KΩ J 1/	1	R82	T2E
49	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R208	T2I
50	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R310	T5E
51	3001051050020	Chip resistor 0402 1MΩ J 1/16	1	R311	T5E
52	3001051240000	Chip resistor 0402 120KΩ J 1/	1	R119	T2C
53	3001051520000	Chip resistor 0402 1.5KΩ J 1/	1	R135	T4G
54	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R136	T3G
55	3001051530000	Chip resistor 0402 15KΩ J 1/1	1	R137	T3G
56	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R212	T1I
57	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R213	T1I
58	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R214	T1I
59	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R215	T1I
60	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R216	T1I
61	3001051540000	Chip resistor 0402 150KΩ F 1/	1	R217	T1I
62	3001051820000	Chip resistor 0402 1.8KΩ J 1/	1	R132	T3F
63	3001051820000	Chip resistor 0402 1.8KΩ J 1/	1	R144	T5H
64	3001051830000	Chip resistor 0402 18KΩ J 1/1	1	R139	T4G
65	3001051840000	Chip resistor 0402 180KΩ J 1/	1	R205	T2I
66	3001051850000	Chip resistor 0402 1.8MΩ J 1/	1	R122	T3E
67	3001051850000	Chip resistor 0402 1.8MΩ J 1/	1	R127	T3F
68	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R206	T2H
69	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R63	T1E
70	3001052220000	Chip resistor 0402 2.2KΩ J 1/	1	R92	T2C
71	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R116	T3D
72	3001052230010	Chip resistor 0402 22KΩ J 1/1	1	R312	T5D
73	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R115	T3D
74	3001052240000	Chip resistor 0402 220KΩ J 1/	1	R85	T2E
75	3001052710010	Chip resistor 0402 270Ω J 1/1	1	R803	T2F
76	3001052730000	Chip resistor 0402 27KΩ J 1/1	1	R113	T2D
77	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R120	T3E
78	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R131	T3F
79	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R154	T2D
80	3001053320000	Chip resistor 0402 3.3KΩ J 1/	1	R201	T2H

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No.	Material No.	Description	Qty	Ref.No.	Address
81	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R114	T2D
82	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R123	T2C
83	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R124	T3E
84	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R125	T3F
85	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R129	T3F
86	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R130	T3F
87	3001053330010	Chip resistor 0402 33KΩ J 1/1	1	R68	T2F
88	3001053340000	Chip resistor 0402 330KΩ J 1/	1	R74	T2B
89	3001053910000	Chip resistor 0402 390Ω J 1/1	1	R202	T2H
90	3001053930000	Chip resistor 0402 39KΩ J 1/1	1	R307	T2B
91	3001054710000	Chip resistor 0402 470Ω J 1/1	1	R148	T5H
92	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R110	T2C
93	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R111	T2C
94	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R151	T5C
95	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R230	T2J
96	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R73	T4C
97	3001054720000	Chip resistor 0402 4.7KΩ J 1/	1	R90	T4C
98	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R117	T3E
99	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R209	T2I
100	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R300	T1A
101	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R306	T2B
102	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R62	T2D
103	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R88	T4K
104	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R89	T4K
105	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R95	T4J
106	3001054730000	Chip resistor 0402 47KΩ J 1/1	1	R97	T4J
107	3001054740000	Chip resistor 0402 470KΩ J 1/	1	R65	T2F
108	3001055130010	Chip resistor 0402 51KΩ J 1/1	1	R134	T3F
109	3001055130010	Chip resistor 0402 51KΩ J 1/1	1	R313	T5E
110	3001055620000	Chip resistor 0402 5.6KΩ J 1/	1	R118	T3E
111	3001055620000	Chip resistor 0402 5.6KΩ J 1/	1	R304	T2A
112	3001055630000	Chip resistor 0402 56KΩ J 1/1	1	R67	T2F
113	3001056810000	Chip resistor 0402 680Ω J 1/1	1	R225	T2J
114	3001056810000	Chip resistor 0402 680Ω J 1/1	1	R227	T2J
115	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R128	T2C
116	3001056820000	Chip resistor 0402 6.8KΩ J 1/	1	R133	T3F
117	3001056840000	Chip resistor 0402 680KΩ J 1/	1	R302	T1A
118	3001057540000	Chip resistor 0402 750KΩ J 1/	1	R138	T4G
119	3001058210000	Chip resistor 0402 820Ω J 1/1	1	R142	T4H
120	3001058220000	Chip resistor 0402 8.2KΩ J 1/	1	R70	T1D

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No.	Material No.	Description	Qty	Ref.No.	Address
121	3001058230000	Chip resistor 0402 82KΩ J 1/1	1	R112	T5C
122	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R14	B3E
123	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R203	B4I
124	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R229	B3G
125	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R26	B5F
126	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R28	B5H
127	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R512	B1D
128	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R528	B2C
129	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R61	B3A
130	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R610	T2C
131	3001060000000	Chip resistor 0603 0Ω J 1/10W	1	R93	B2I
132	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R1	B5C
133	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R22	B4E
134	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R233	B3F
135	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R243	B2F
136	3001061000000	Chip resistor 0603 10Ω J 1/10	1	R502	B2C
137	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R19	B5E
138	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R513	B3D
139	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R518	B2E
140	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R524	B1F
141	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R525	B1F
142	3001061010000	Chip resistor 0603 100Ω J 1/1	1	R530	B2F
143	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R101	B2H
144	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R23	B3E
145	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R501	B1B
146	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R503	B2C
147	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R519	B2D
148	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R532	B1F
149	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R60	B3D
150	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R83	T3B
151	3001061020010	Chip resistor 0603 1KΩ J 1/10	1	R94	B2I
152	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R106	B2H
153	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R109	B2H
154	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R15	B3E
155	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R41	B3A
156	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R514	B1D
157	3001061030010	Chip resistor 0603 10KΩ J 1/1	1	R522	B1E
158	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R29	B5E
159	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R30	B4E
160	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R31	B4G

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No.	Material No.	Description	Qty	Ref.No.	Address
161	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R517	B1E
162	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R520	B1D
163	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R533	B1F
164	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R55	B4A
165	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R57	B4A
166	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R8	B5B
167	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R804	B4F
168	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R807	B3E
169	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R808	B3E
170	3001061040010	Chip resistor 0603 100KΩ J 1/	1	R815	B4F
171	3001061050010	Chip resistor 0603 1MΩ J 1/10	1	R37	B3A
172	3001061230000	Chip resistor 0603 12KΩ J 1/1	1	R45	B2B
173	3001061240000	Chip resistor 0603 120KΩ D 1/	1	R39	B3B
174	3001061240000	Chip resistor 0603 120KΩ D 1/	1	R529	B2F
175	3001061240000	Chip resistor 0603 120KΩ D 1/	1	R71	B3C
176	3001061510000	Chip resistor 0603 150Ω J 1/1	1	R17	B3E
177	3001061510000	Chip resistor 0603 150Ω J 1/1	1	R21	B5F
178	3001061520000	Chip resistor 0603 1.5KΩ J 1/	1	R235	B3F
179	3001061530000	Chip resistor 0603 15KΩ D 1/1	1	R107	B2H
180	3001061530000	Chip resistor 0603 15KΩ D 1/1	1	R108	B1H
181	3001061540010	Chip resistor 0603 150KΩ D 1/	1	R505	B1B
182	3001061810000	Chip resistor 0603 180Ω J 1/1	1	R77	B2K
183	3001061830010	Chip resistor 0603 18KΩ J 1/1	1	R38	B3A
184	3001061840000	Chip resistor 0603 180KΩ J 1/	1	R3	B4B
185	3001061840000	Chip resistor 0603 180KΩ J 1/	1	R51	B4A
186	3001061840000	Chip resistor 0603 180KΩ J 1/	1	R7	B4B
187	3001062200000	Chip resistor 0603 22Ω J 1/10	1	R236	B3G
188	3001062200000	Chip resistor 0603 22Ω J 1/10	1	R238	B4F
189	3001062200000	Chip resistor 0603 22Ω J 1/10	1	R527	B1F
190	3001062210000	Chip resistor 0603 220Ω J 1/1	1	R76	B2K
191	3001062220000	Chip resistor 0603 2.2KΩ J 1/	1	R27	B3E
192	3001062220000	Chip resistor 0603 2.2KΩ J 1/	1	R509	B1C
193	3001062220000	Chip resistor 0603 2.2KΩ J 1/	1	R80	B2J
194	3001062230000	Chip resistor 0603 22KΩ J 1/1	1	R224	B3G
195	3001062230000	Chip resistor 0603 22KΩ J 1/1	1	R232	B3G
196	3001062230000	Chip resistor 0603 22KΩ J 1/1	1	R53	B3C
197	3001062240010	Chip resistor 0603 220KΩ J 1/	1	R54	B3C
198	3001062710000	Chip resistor 0603 270Ω J 1/1	1	R200	B4J
199	3001062710000	Chip resistor 0603 270Ω J 1/1	1	R211	B4J
200	3001062710000	Chip resistor 0603 270Ω J 1/1	1	R245	B2E

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No.	Material No.	Description	Qty	Ref.No.	Address
201	3001062720000	Chip resistor 0603 2.7KΩ J 1/	1	R10	B5C
202	3001062720000	Chip resistor 0603 2.7KΩ J 1/	1	R102	B2H
203	3001062720000	Chip resistor 0603 2.7KΩ J 1/	1	R508	B1C
204	3001062720000	Chip resistor 0603 2.7KΩ J 1/	1	R96	B2H
205	3001062740000	Chip resistor 0603 270KΩ D 1/	1	R49	B3A
206	3001062740000	Chip resistor 0603 270KΩ D 1/	1	R50	B3C
207	3001063310010	Chip resistor 0603 330Ω J 1/1	1	R234	B3G
208	3001063310010	Chip resistor 0603 330Ω J 1/1	1	R239	B3F
209	3001063310010	Chip resistor 0603 330Ω J 1/1	1	R526	B1F
210	3001063310010	Chip resistor 0603 330Ω J 1/1	1	R534	B2B
211	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R241	B3F
212	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R242	B2E
213	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R244	B2E
214	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R247	B2E
215	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R36	B3B
216	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R4	B4B
217	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R5	B5B
218	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R98	B2I
219	3001063320000	Chip resistor 0603 3.3KΩ J 1/	1	R99	B2I
220	3001063330010	Chip resistor 0603 33KΩ J 1/1	1	R69	B3A
221	3001063340000	Chip resistor 0603 330KΩ J 1/	1	R507	B2C
222	3001063920000	Chip resistor 0603 3.9KΩ J 1/	1	R2	B4B
223	3001063930010	Chip resistor 0603 39KΩ J 1/1	1	R511	B2A
224	3001063940000	Chip resistor 0603 390KΩ D 1/	1	R48	B3C
225	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R13	B3E
226	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R221	B3H
227	3001064700000	Chip resistor 0603 47Ω J 1/10	1	R228	B3G
228	3001064710000	Chip resistor 0603 470Ω J 1/1	1	R11	B5C
229	3001064710000	Chip resistor 0603 470Ω J 1/1	1	R12	B3D
230	3001064720000	Chip resistor 0603 4.7KΩ J 1/	1	R531	B2F
231	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R223	B3H
232	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R231	B3G
233	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R240	B3F
234	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R510	B2B
235	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R515	B2E
236	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R52	B4B
237	3001064730000	Chip resistor 0603 47KΩ J 1/1	1	R521	B1E
238	3001064740000	Chip resistor 0603 470KΩ D 1/	1	R42	B4B
239	3001064740000	Chip resistor 0603 470KΩ D 1/	1	R47	B3C
240	3001065610000	Chip resistor 0603 560Ω J 1/1	1	R504	B1C

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No.	Material No.	Description	Qty	Ref.No.	Address
241	3001065610000	Chip resistor 0603 560Ω J 1/1	1	R506	B1C
242	3001065620000	Chip resistor 0603 5.6KΩ D 1/	1	R246	B2E
243	3001065620000	Chip resistor 0603 5.6KΩ D 1/	1	R34	B3A
244	3001065620000	Chip resistor 0603 5.6KΩ D 1/	1	R35	B3A
245	3001065620000	Chip resistor 0603 5.6KΩ D 1/	1	R56	B3C
246	3001065620000	Chip resistor 0603 5.6KΩ D 1/	1	R58	B3C
247	3001065630000	Chip resistor 0603 56KΩ J 1/1	1	R40	B3A
248	3001065630000	Chip resistor 0603 56KΩ J 1/1	1	R809	B3E
249	3001066810010	Chip resistor 0603 680Ω J 1/1	1	R237	B3F
250	3001066830000	Chip resistor 0603 68KΩ J 1/1	1	R46	B4A
251	3001066830000	Chip resistor 0603 68KΩ J 1/1	1	R806	B3E
252	3001066840000	Chip resistor 0603 680KΩ J 1/	1	R9	B5C
253	3001068210010	Chip resistor 0603 820Ω J 1/1	1	R103	B3I
254	3001068210010	Chip resistor 0603 820Ω J 1/1	1	R6	B5B
255	3001068220000	Chip resistor 0603 8.2KΩ J 1/	1	R100	B2K
256	3001068220000	Chip resistor 0603 8.2KΩ J 1/	1	R523	B1E
257	3001068220000	Chip resistor 0603 8.2KΩ J 1/	1	R84	B2K
258	3001068230010	Chip resistor 0603 82KΩ J 1/1	1	R805	B4F
259	3001069130000	Chip resistor 0603 91KΩ D 1/1	1	R33	B3C
260	3001070000000	Chip resistor 0805 0Ω J 1/8W(	1	R222	B3H
261	3001070000000	Chip resistor 0805 0Ω J 1/8W(	1	R226	B4I
262	3001070000000	Chip resistor 0805 0Ω J 1/8W(	1	R43	T2F
263	3001070000000	Chip resistor 0805 0Ω J 1/8W(	1	R44	B3A
264	3001080590000	Chip resistor 1206 0.5Ω J 1/4	1	R218	T2J
265	3001080590000	Chip resistor 1206 0.5Ω J 1/4	1	R219	T2J
266	3001080590000	Chip resistor 1206 0.5Ω J 1/4	1	R220	T2J
267	3002996830020	Trimmer resistor φ3.0mm 68KΩ ±2	1	VR1	T4A
268	3002996830020	Trimmer resistor φ3.0mm 68KΩ ±2	1	VR101	T2D
269	3003992220000	Thermister 0603 2.2KΩ J 10	1	TH100	T3E
270	3003992220000	Thermister 0603 2.2KΩ J 10	1	TH500	T2C
271	3003994730000	Thermister 0603 47KΩ J 100	1	TH102	B3H
272	3101050300000	Chip capacitor 0402 3PF B 50V	1	C84	T3B
273	3101051010030	Chip capacitor 0402 100PF J 50	1	C220	T1I
274	3101051010030	Chip capacitor 0402 100PF J 50	1	C305	T1A
275	3101051020010	Chip capacitor 0402 1000PF K 5	1	C113	T3E
276	3101051020010	Chip capacitor 0402 1000PF K 5	1	C124	T4G
277	3101051020010	Chip capacitor 0402 1000PF K 5	1	C302	T2B
278	3101051020010	Chip capacitor 0402 1000PF K 5	1	C816	B3E
279	3101051020010	Chip capacitor 0402 1000PF K 5	1	C82	T4A
280	3101051020010	Chip capacitor 0402 1000PF K 5	1	C88	T3D

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No.	Material No.	Description	Qty	Ref.No.	Address
281	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C118	T3F
282	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C403	T4I
283	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C74	T2F
284	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C93	T4K
285	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C94	T4K
286	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C96	T4J
287	3101051030020	Chip capacitor 0402 0.01UF K 2	1	C99	T4J
288	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C128	T4I
289	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C300	T1B
290	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C303	T2A
291	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C311	T5E
292	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C551	T4A
293	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C67	T2E
294	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C77	T2B
295	3101051040060	Chip capacitor 0402 0.1UF K 16	1	C812	T2E
296	3101051230000	Chip capacitor 0402 0.012UF K	1	C304	T2A
297	3101051230000	Chip capacitor 0402 0.012UF K	1	C306	T2A
298	3101051800010	Chip capacitor 0402 18PF J 50V	1	C307	T5E
299	3101051800010	Chip capacitor 0402 18PF J 50V	1	C308	T5E
300	3101052200010	Chip capacitor 0402 22PF J 50V	1	C310	T5E
301	3101052210010	Chip capacitor 0402 220PF K 50	1	C133	T5J
302	3101052210010	Chip capacitor 0402 220PF K 50	1	C134	T5I
303	3101052230000	Chip capacitor 0402 0.022UF K	1	C121	T4G
304	3101052230000	Chip capacitor 0402 0.022UF K	1	C123	T4G
305	3101052730000	Chip capacitor 0402 0.027UF K	1	C103	T2C
306	3101052730000	Chip capacitor 0402 0.027UF K	1	C104	T2C
307	3101052730000	Chip capacitor 0402 0.027UF K	1	C127	T4G
308	3101053320010	Chip capacitor 0402 3300PF K 5	1	C111	T3E
309	3101053320010	Chip capacitor 0402 3300PF K 5	1	C112	T3E
310	3101053320010	Chip capacitor 0402 3300PF K 5	1	C115	T3F
311	3101053330000	Chip capacitor 0402 0.033UF K	1	C106	T5C
312	3101053330000	Chip capacitor 0402 0.033UF K	1	C402	T4H
313	3101053920000	Chip capacitor 0402 3900PF K 2	1	C105	T5C
314	3101053920000	Chip capacitor 0402 3900PF K 2	1	C401	T4H
315	3101054710010	Chip capacitor 0402 470PF K 50	1	C109	T3G
316	3101054710010	Chip capacitor 0402 470PF K 50	1	C116	T3F
317	3101054710010	Chip capacitor 0402 470PF K 50	1	C120	T3F
318	3101054710010	Chip capacitor 0402 470PF K 50	1	C129	T4I
319	3101054710010	Chip capacitor 0402 470PF K 50	1	C200	T2H
320	3101054710010	Chip capacitor 0402 470PF K 50	1	C215	T2I

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No.	Material No.	Description	Qty	Ref.No.	Address
321	3101054710010	Chip capacitor 0402 470PF K 50	1	C216	T2I
322	3101054710010	Chip capacitor 0402 470PF K 50	1	C221	T1I
323	3101054710010	Chip capacitor 0402 470PF K 50	1	C235	T3J
324	3101054710010	Chip capacitor 0402 470PF K 50	1	C238	T2J
325	3101054710010	Chip capacitor 0402 470PF K 50	1	C79	T2C
326	3101054710010	Chip capacitor 0402 470PF K 50	1	C80	T2B
327	3101054710010	Chip capacitor 0402 470PF K 50	1	C826	B4E
328	3101054710010	Chip capacitor 0402 470PF K 50	1	C85	T4A
329	3101054710010	Chip capacitor 0402 470PF K 50	1	C86	T2A
330	3101054710010	Chip capacitor 0402 470PF K 50	1	C89	T5B
331	3101054710010	Chip capacitor 0402 470PF K 50	1	C91	T5A
332	3101054730000	Chip capacitor 0402 0.047UF K	1	C114	T3F
333	3101054730000	Chip capacitor 0402 0.047UF K	1	C117	T3F
334	3101054730000	Chip capacitor 0402 0.047UF K	1	C73	T2F
335	3101054730000	Chip capacitor 0402 0.047UF K	1	C810	T2E
336	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C69	T2G
337	3101054740000	Chip capacitor 0402 0.47UF Z 6	1	C71	T1E
338	3101056820000	Chip capacitor 0402 6800PF K 2	1	C404	T4H
339	3101056830000	Chip capacitor 0402 0.068UF K	1	C309	T5E
340	3101060100010	Chip capacitor 0603 1PF B 50V	1	C204	B4K
341	3101060100010	Chip capacitor 0603 1PF B 50V	1	C208	B4J
342	3101060100010	Chip capacitor 0603 1PF B 50V	1	C209	B4I
343	3101060100010	Chip capacitor 0603 1PF B 50V	1	C210	B5J
344	3101060100010	Chip capacitor 0603 1PF B 50V	1	C265	B4I
345	3101060100010	Chip capacitor 0603 1PF B 50V	1	C540	B2F
346	3101060200010	Chip capacitor 0603 2PF B 50V	1	C212	B4I
347	3101060200010	Chip capacitor 0603 2PF B 50V	1	C23	B5D
348	3101060200010	Chip capacitor 0603 2PF B 50V	1	C524	B1C
349	3101060300010	Chip capacitor 0603 3PF B 50V	1	C140	B4I
350	3101060300010	Chip capacitor 0603 3PF B 50V	1	C214	B4I
351	3101060300010	Chip capacitor 0603 3PF B 50V	1	C37	B4E
352	3101060300010	Chip capacitor 0603 3PF B 50V	1	C537	B1F
353	3101060300010	Chip capacitor 0603 3PF B 50V	1	C546	B2D
354	3101060400010	Chip capacitor 0603 4PF B 50V	1	C26	B5E
355	3101060400010	Chip capacitor 0603 4PF B 50V	1	C33	B5H
356	3101060500010	Chip capacitor 0603 5PF B 50V	1	C207	B4J
357	3101060500010	Chip capacitor 0603 5PF B 50V	1	C531	B2G
358	3101060500010	Chip capacitor 0603 5PF B 50V	1	C538	B1F
359	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C25	B5E
360	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C31	B4G

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No.	Material No.	Description	Qty	Ref.No.	Address
361	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C32	B5G
362	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C36	B4E
363	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C533	B1E
364	3101060590010	Chip capacitor 0603 0.5PF B 50	1	C542	B1F
365	3101060600010	Chip capacitor 0603 6PF B 50V	1	C22	B3E
366	3101060600010	Chip capacitor 0603 6PF B 50V	1	C239	B3F
367	3101060600010	Chip capacitor 0603 6PF B 50V	1	C245	B2E
368	3101060600010	Chip capacitor 0603 6PF B 50V	1	C38	B3E
369	3101060600010	Chip capacitor 0603 6PF B 50V	1	C534	B1E
370	3101060600010	Chip capacitor 0603 6PF B 50V	1	C545	B2F
371	3101060700020	Chip capacitor 0603 7PF B 50V	1	C242	B3F
372	3101060800010	Chip capacitor 0603 8PF B 50V	1	C532	B2G
373	3101060900010	Chip capacitor 0603 9PF B 50V	1	C528	B2E
374	3101061000000	Chip capacitor 0603 10PF J 50V	1	C3	B4B
375	3101061000000	Chip capacitor 0603 10PF J 50V	1	C508	B2C
376	3101061000000	Chip capacitor 0603 10PF J 50V	1	C511	B2C
377	3101061000000	Chip capacitor 0603 10PF J 50V	1	C535	B2F
378	3101061010010	Chip capacitor 0603 100PF J 50	1	C217	B4I
379	3101061010010	Chip capacitor 0603 100PF J 50	1	C502	B1A
380	3101061010010	Chip capacitor 0603 100PF J 50	1	C503	B1A
381	3101061010010	Chip capacitor 0603 100PF J 50	1	C506	B1B
382	3101061010010	Chip capacitor 0603 100PF J 50	1	C526	B2E
383	3101061020000	Chip capacitor 0603 1000PF K 5	1	C229	B3H
384	3101061020000	Chip capacitor 0603 1000PF K 5	1	C232	B3G
385	3101061020000	Chip capacitor 0603 1000PF K 5	1	C234	B3G
386	3101061020000	Chip capacitor 0603 1000PF K 5	1	C525	B1F
387	3101061020000	Chip capacitor 0603 1000PF K 5	1	C536	B1F
388	3101061020000	Chip capacitor 0603 1000PF K 5	1	C60	B4A
389	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C11	B5B
390	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C15	B5C
391	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C17	B4E
392	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C2	B4B
393	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C20	B4E
394	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C21	B4D
395	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C225	B3I
396	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C516	B3D
397	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C517	B3D
398	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C519	B2E
399	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C52	B3B
400	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C56	B3C

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No.	Material No.	Description	Qty	Ref.No.	Address
401	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C58	B3C
402	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C61	B3C
403	3101061030010	Chip capacitor 0603 0.01UF K 2	1	C95	B2I
404	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C10	B5B
405	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C12	B5B
406	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C14	B5B
407	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C202	B3F
408	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C222	B3I
409	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C237	B3G
410	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C246	B2F
411	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C43	B5B
412	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C45	B5D
413	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C49	B3C
414	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C50	B4B
415	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C501	B1B
416	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C504	B2C
417	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C510	B1C
418	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C550	B2A
419	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C66	B3C
420	3101061040010	Chip capacitor 0603 0.1UF K 16	1	C8	B4B
421	3101061050060	Chip capacitor 0603 1UF K 10V	1	C59	B3A
422	3101061050060	Chip capacitor 0603 1UF K 10V	1	C92	T5A
423	3101061100010	Chip capacitor 0603 11PF J 50V	1	C218	B4I
424	3101061200000	Chip capacitor 0603 12PF J 50V	1	C27	B5E
425	3101061200000	Chip capacitor 0603 12PF J 50V	1	C529	B1E
426	3101061210000	Chip capacitor 0603 120PF J 50	1	C521	B4D
427	3101061300000	Chip capacitor 0603 13PF J 50V	1	C16	B4D
428	3101061500010	Chip capacitor 0603 15PF J 50V	1	C219	B3E
429	3101061530000	Chip capacitor 0603 0.015UF K	1	C48	B3B
430	3101061590010	Chip capacitor 0603 1.5PF B 50	1	C203	B5J
431	3101061590010	Chip capacitor 0603 1.5PF B 50	1	C205	B4J
432	3101061590010	Chip capacitor 0603 1.5PF B 50	1	C206	B4J
433	3101061590010	Chip capacitor 0603 1.5PF B 50	1	C46	B5E
434	3101062200010	Chip capacitor 0603 22PF J 50V	1	C250	B2E
435	3101062200010	Chip capacitor 0603 22PF J 50V	1	C288	B3H
436	3101062210000	Chip capacitor 0603 220PF J 50	1	C6	B4B
437	3101062210000	Chip capacitor 0603 220PF J 50	1	C7	B4B
438	3101062490000	Chip capacitor 0603 2.4PF B 50	1	C34	B4H
439	3101062700010	Chip capacitor 0603 27PF J 50V	1	C233	B3G
440	3101063300000	Chip capacitor 0603 33PF J 50V	1	C13	B5C

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No.	Material No.	Description	Qty	Ref.No.	Address
441	3101063300000	Chip capacitor 0603 33PF J 50V	1	C523	B4C
442	3101063300000	Chip capacitor 0603 33PF J 50V	1	C530	B1G
443	3101063310010	Chip capacitor 0603 330PF K 50	1	C514	B2D
444	3101063330030	Chip capacitor 0603 0.033UF K	1	C53	B3B
445	3101063330030	Chip capacitor 0603 0.033UF K	1	C62	B3C
446	3101063330030	Chip capacitor 0603 0.033UF K	1	C64	B3C
447	3101063330030	Chip capacitor 0603 0.033UF K	1	C65	B3C
448	3101063330030	Chip capacitor 0603 0.033UF K	1	C97	B2H
449	3101063690000	Chip capacitor 0603 3.6PF B 50	1	C39	B4F
450	3101063690000	Chip capacitor 0603 3.6PF B 50	1	C42	B4G
451	3101064700000	Chip capacitor 0603 47PF J 50V	1	C509	B2C
452	3101064700000	Chip capacitor 0603 47PF J 50V	1	C527	B1G
453	3101064710000	Chip capacitor 0603 470PF K 50	1	C100	B2H
454	3101064710000	Chip capacitor 0603 470PF K 50	1	C131	B2J
455	3101064710000	Chip capacitor 0603 470PF K 50	1	C135	B5H
456	3101064710000	Chip capacitor 0603 470PF K 50	1	C18	B3E
457	3101064710000	Chip capacitor 0603 470PF K 50	1	C201	B3F
458	3101064710000	Chip capacitor 0603 470PF K 50	1	C211	B4J
459	3101064710000	Chip capacitor 0603 470PF K 50	1	C213	B4J
460	3101064710000	Chip capacitor 0603 470PF K 50	1	C224	B3J
461	3101064710000	Chip capacitor 0603 470PF K 50	1	C228	B3I
462	3101064710000	Chip capacitor 0603 470PF K 50	1	C230	B4G
463	3101064710000	Chip capacitor 0603 470PF K 50	1	C231	B3G
464	3101064710000	Chip capacitor 0603 470PF K 50	1	C236	B3G
465	3101064710000	Chip capacitor 0603 470PF K 50	1	C24	B3E
466	3101064710000	Chip capacitor 0603 470PF K 50	1	C240	B3G
467	3101064710000	Chip capacitor 0603 470PF K 50	1	C241	B3G
468	3101064710000	Chip capacitor 0603 470PF K 50	1	C243	B3F
469	3101064710000	Chip capacitor 0603 470PF K 50	1	C244	B3F
470	3101064710000	Chip capacitor 0603 470PF K 50	1	C247	B2E
471	3101064710000	Chip capacitor 0603 470PF K 50	1	C248	B2F
472	3101064710000	Chip capacitor 0603 470PF K 50	1	C249	B2E
473	3101064710000	Chip capacitor 0603 470PF K 50	1	C28	B5E
474	3101064710000	Chip capacitor 0603 470PF K 50	1	C29	B5F
475	3101064710000	Chip capacitor 0603 470PF K 50	1	C30	B4E
476	3101064710000	Chip capacitor 0603 470PF K 50	1	C35	B4E
477	3101064710000	Chip capacitor 0603 470PF K 50	1	C4	B4B
478	3101064710000	Chip capacitor 0603 470PF K 50	1	C40	B4E
479	3101064710000	Chip capacitor 0603 470PF K 50	1	C41	B4G
480	3101064710000	Chip capacitor 0603 470PF K 50	1	C44	B5E

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No.	Material No.	Description	Qty	Ref.No.	Address
481	3101064710000	Chip capacitor 0603 470PF K 50	1	C507	B2D
482	3101064710000	Chip capacitor 0603 470PF K 50	1	C520	B1C
483	3101064710000	Chip capacitor 0603 470PF K 50	1	C522	B2A
484	3101064710000	Chip capacitor 0603 470PF K 50	1	C539	B1E
485	3101064710000	Chip capacitor 0603 470PF K 50	1	C541	B1F
486	3101064710000	Chip capacitor 0603 470PF K 50	1	C544	B2F
487	3101064710000	Chip capacitor 0603 470PF K 50	1	C547	B2F
488	3101064710000	Chip capacitor 0603 470PF K 50	1	C549	B2A
489	3101064710000	Chip capacitor 0603 470PF K 50	1	C78	B2K
490	3101064710000	Chip capacitor 0603 470PF K 50	1	C81	B2K
491	3101064710000	Chip capacitor 0603 470PF K 50	1	C828	B4F
492	3101064720000	Chip capacitor 0603 4700PF K 5	1	C5	B4B
493	3101064730000	Chip capacitor 0603 47NF K 16V	1	C63	B4A
494	3101065600000	Chip capacitor 0603 56PF J 50V	1	C76	B4A
495	3101065620010	Chip capacitor 0603 5600PF K 5	1	C55	B4A
496	3101066800000	Chip capacitor 0603 68PF J 50V	1	C513	B4D
497	3101066800000	Chip capacitor 0603 68PF J 50V	1	C543	B4C
498	3101066820000	Chip capacitor 0603 6800PF K 5	1	C47	B3B
499	3101068200000	Chip capacitor 0603 82PF J 50V	1	C9	B5B
500	3101071040000	Chip capacitor 0805 0.1UF K 25	1	C125	T4G
501	3101071050010	Chip capacitor 0805 1UF K 10V	1	C101	B3H
502	3101071050010	Chip capacitor 0805 1UF K 10V	1	C102	B3J
503	3101071050010	Chip capacitor 0805 1UF K 10V	1	C108	T3E
504	3101071050010	Chip capacitor 0805 1UF K 10V	1	C227	B3J
505	3101071050010	Chip capacitor 0805 1UF K 10V	1	C98	B2J
506	3101074710010	Chip capacitor 0805 470PF K 50	1	C132	T5I
507	3104071040010	Ta-capacitor 0805 0.1UF M 20V	1	C515	B1D
508	3104071050010	Ta-capacitor 0805 1UF M 16V T	1	C512	B1C
509	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C1	B4B
510	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C130	T5H
511	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C226	T2G
512	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C51	B3B
513	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C518	B1B
514	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C54	B3C
515	3104071060010	Ta-capacitor 0805 10UF M 6.3V	1	C83	T4A
516	3104071560020	Ta-capacitor 0805 15UF M 6.3V	1	C814	T2F
517	3104071560020	Ta-capacitor 0805 15UF M 6.3V	1	C815	T2E
518	3104201070000	Ta-capacitor 2220 100UF M 6.3	1	C75	T3G
519	3210306180000	Multi-layer inductor 0603 18nH LQG18	1	L33	B3F
520	3210306180000	Multi-layer inductor 0603 18nH LQG18	1	L50	B1C

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No.	Material No.	Description	Qty	Ref.No.	Address
521	3213212331000	Multi-layer inductor 1008 330nH NLV2	1	L19	B3E
522	3213212561000	Multi-layer inductor 1008 0.56uH NLV	1	L18	B3E
523	3213306332000	Multi-layer inductor 0603 3.3uH MLF1	1	L36	B2F
524	3213306332000	Multi-layer inductor 0603 3.3uH MLF1	1	L45	B2E
525	3213306332000	Multi-layer inductor 0603 3.3uH MLF1	1	L47	B2E
526	3210306221000	Multi-layer inductor 0603 220nH LQM1	1	L4	T3B
527	3210306221000	Multi-layer inductor 0603 220nH LQM1	1	L5	T3D
528	3210306221000	Multi-layer inductor 0603 220nH LQM1	1	L7	T3D
529	3210306561010	Multi-layer inductor 0603 560nH LQM1	1	L51	B3D
530	3221507600000	Chip ferrite bead 0805 60Ω±25%	1	L27	B3I
531	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L10	B5H
532	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L11	B4G
533	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L12	B4F
534	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L15	B5E
535	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L16	B5E
536	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L22	B4J
537	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L8	B4E
538	3231351630000	Air-core inductor E2-0.35*1.6*3TR	1	L9	B4H
539	3231351680000	Air-core inductor E2-0.35*1.6*8TR	1	L28	B3I
540	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q135	B3F
541	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q136	B2E
542	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q139	B2F
543	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q143	B1C
544	3401002000990	Transistor 2SC5108-Y(TE85L.	1	Q144	B2C
545	3504990000010	FET RD01MUS2-T113 P	1	Q131	B3G
546	3602028004610	AF amplificationIC KIA6278F-EL/P	1	IC7	T1E
547	3604007004810	PLL MB1511PFV-G-BND-	1	IC13	B2B
548	3608015000000	Power management IC(regulator) XC6201P5	1	IC2	T5A
549	3610045000750	SCM M38037M6H-273FP#U	1	IC3	T3C
550	3612031000510	Memory AT24C16AN-10SU-2	1	IC5	T5B
551	3618005001140	AF encoder CMX823E4 Audio	1	IC14	T5E
552	3701737230020	Crystal 7.3728MHz DSX530G	1	X100	T3B
553	4099000000050	Fuse 046602.5NR 2.5A/	1	F100	T5J
554	5202010100030	Socket 10P AXK6F10345YJ	1	CN100	T4J
555	4100365100200	TC365 PCB FR4 1.2T/6	1		
556	3101072200000	Chip capacitor 0805 22PF K 50V	1	C223	B4I
557	3619006005220	Low voltage detection IC R3111N451C-TR	1	IC4	T2B
558	3102992000000	Trimmer capacitor 3.2*2.5*1.25mm	1	TC1	B4G
559	3102992000000	Trimmer capacitor 3.2*2.5*1.25mm	1	TC2	B4F
560	3102992000000	Trimmer capacitor 3.2*2.5*1.25mm	1	TC3	B5E

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No.	Material No.	Description	Qty	Ref.No.	Address
561	3102992000000	Trimmer capacitor 3.2*2.5*1.25mm	1	TC4	B1E
562	3005061020010	Resistor array 0603 1K Ω *4 J 1/1	1	CP1	B1A
563	3102992000040	Trimmer capacitor 3.2*2.5*1.25mm	1	TC5	B1G
564	3002994730020	Trimmer resistor 3*3mm 47K Ω J 0.1	1	VR100	T3E
565	3210306101000	Multi-layer inductor 0603 100nH LQG1	1	L41	B2F
566	3210306101000	Multi-layer inductor 0603 100nH LQG1	1	L44	B1G
567	3210306101000	Multi-layer inductor 0603 100nH LQG1	1	L48	B1F
568	3210306150000	Multi-layer inductor 0603 15nH LQG18	1	L32	B3G
569	3210406471000	Multi-layer inductor 0603 470nH LQM1	1	L52	B2D
570	3210306220000	Multi-layer inductor 0603 22nH LQG18	1	L17	B3E
571	3210306220000	Multi-layer inductor 0603 22nH LQG18	1	L34	B2E
572	3210306220000	Multi-layer inductor 0603 22nH LQG18	1	L35	B2F
573	3213212102000	Multi-layer inductor 1008 1uH NLV25T	1	L30	B3H
574	3213212102000	Multi-layer inductor 1008 1uH NLV25T	1	L53	B2D
575	3212106221000	Multi-layer inductor 0603 220nH HK16	1	L39	B4C
576	3212106221000	Multi-layer inductor 0603 220nH HK16	1	L40	B4D
577	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L3	T4I
578	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L31	B4F
579	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L37	B2F
580	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L46	B1E
581	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L49	B1D
582	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L54	B2D
583	3221506601000	Chip ferrite bead 0603 600 Ω ±25	1	L6	T4B
584	3221507221000	Chip ferrite bead 0805 220 Ω ±25	1	L1	T5I
585	3221507221000	Chip ferrite bead 0805 220 Ω ±25	1	L2	B2J
586	3221507221000	Chip ferrite bead 0805 220 Ω ±25	1	L29	B3H
587	3210306229000	Multi-layer inductor 0603 2.2nH LQG1	1	L20	B3G
588	3210306270000	Multi-layer inductor 0603 27nH LQG18	1	L14	B5E
589	3399990000110	Diode ISR154-400 SOD-1	1	D100	B2K
590	3210107221000	Bobbin inductor 0805 220nH LQW2	1	L26	B4J
591	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L23	B4J
592	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L24	B4J
593	3231351640000	Air-core inductor E2-0.35*1.6*4TL	1	L25	B4I
594	3210108230010	Bobbin inductor 1206 23nH LQW31	1	L42	B1E
595	3210108230010	Bobbin inductor 1206 23nH LQW31	1	L43	B1G
596	3210306390000	Multi-layer inductor 0603 39nH LQG18	1	L13	B5F
597	3210209102010	Bobbin inductor 1210 1uH LQH32M	1	L21	T2J
598	3303010500290	Switching diode 1SS372(TE85L.F	1	D102	T4G
599	3210306470000	Multi-layer inductor 0603 47nH LQG18	1	L38	B2F
600	3303020100020	Switching diode MA2S11100L SS-	1	D114	B1B

Part List 1

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No.	Material No.	Description	Qty	Ref.No.	Address
601	3303020100020	Switching diode MA2S11100L SS-	1	D115	B2F
602	3404002000000	Transistor PRF957 NPN PHIL	1	Q141	B1F
603	3406001000090	Transistor 2SC4988FRTR-E NP	1	Q134	B3G
604	3411002000020	Transistor 2SC5343EG NPN AU	1	Q101	T4H
605	3411002000020	Transistor 2SC5343EG NPN AU	1	Q102	T3F
606	3411002000020	Transistor 2SC5343EG NPN AU	1	Q103	T3E
607	3411002000020	Transistor 2SC5343EG NPN AU	1	Q121	B3C
608	3411002000020	Transistor 2SC5343EG NPN AU	1	Q137	B2F
609	3499000000150	Transistor UMC4(NTR) NPN/PN	1	Q138	B1F
610	3499000000170	Transistor UFMMT591 PNP SOT	1	Q107	B2I
611	3499000000170	Transistor UFMMT591 PNP SOT	1	Q108	B2I
612	3499000000180	Transistor UFMMT717 PNP SOT	1	Q132	T2J
613	3307110100080	LED KPT-1608SGC	1	D103	T4K
614	3303210200000	Varactor MA2S37600L SS-	1	D117	B2E
615	3303210200000	Varactor MA2S37600L SS-	1	D118	B1F
616	3303210200000	Varactor MA2S37600L SS-	1	D119	B2E
617	3303210200000	Varactor MA2S37600L SS-	1	D120	B1F
618	3303020100070	Switching diode MA2Z07700L SOD	1	D111	B4J
619	3307110100070	LED KPT-1608SRC	1	D104	T4K
620	3499000000110	Transistor 2SC4619TLP SOD-3	1	Q124	B5C
621	3303020100080	Switching diode MA2S07700L 1.7	1	D108	B3E
622	3303020100080	Switching diode MA2S07700L 1.7	1	D109	B4I
623	3303020100080	Switching diode MA2S07700L 1.7	1	D110	B4I
624	3303020100080	Switching diode MA2S07700L 1.7	1	D112	B3E
625	3303030100010	Switching diode DAN222(TL) SOT	1	D101	T4H
626	3399990000160	Varactor MA2Z36000L 30V	1	D116	B1E
627	3399990000220	Diode UDZS3.0B SOD-323	1	D113	B2A
628	3401001000080	Transistor 2SA1362-GR (TE85.	1	Q117	T2E
629	3501020000030	FET 3SK318YB-TL-E-Q	1	Q122	B5F
630	3501020000030	FET 3SK318YB-TL-E-Q	1	Q123	B3E
631	3403007000000	Transistor DTA114EE(TL) PNP	1	Q125	B5B
632	3403007000020	Transistor DTA114YE(TL) PNP	1	Q112	T4B
633	3403007000040	Transistor DTA123JE PNP Roh	1	Q105	B2J
634	3403007000060	Transistor DTA143ZE PNP Roh	1	Q100	T4D
635	3403007000070	Transistor DTA144EE PNP Roh	1	Q119	B3A
636	3403007000070	Transistor DTA144EE PNP Roh	1	Q127	T2H
637	3403008000010	Transistor DTC114EE(TL) NPN	1	Q113	B2K
638	3403008000010	Transistor DTC114EE(TL) NPN	1	Q114	B2K
639	3403008000010	Transistor DTC114EE(TL) NPN	1	Q128	T2G
640	3403008000030	Transistor DTC114TE NPN Roh	1	Q126	T2H

Part List 1

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No.	Material No.	Description	Qty	Ref.No.	Address
641	3403008000070	Transistor DTC144EE(TL) NPN	1	Q111	T3B
642	3403008000070	Transistor DTC144EE(TL) NPN	1	Q116	T1F
643	3403008000070	Transistor DTC144EE(TL) NPN	1	Q118	T1D
644	3403009000010	Transistor UMG3N(N-TR) NPN	1	Q106	B3I
645	3403009000010	Transistor UMG3N(N-TR) NPN	1	Q110	B2I
646	3304060300050	Varactor HVC350BTRF-E R	1	D105	B5E
647	3304060300050	Varactor HVC350BTRF-E R	1	D106	B4G
648	3304060300050	Varactor HVC350BTRF-E R	1	D107	B4F
649	3701012850010	Temperature compensate oscillator 12.8MHz NSA0	1	X5	B2B
650	3802388540010	Crystal filter 38.850MHz MFT3	1	XF101	B4D
651	3605008005010	Operation amplifier NJM2100V 2 operation amplifier J	1	IC1	T3G
652	3605008005070	Operation amplifier NJM2904V 2 operation amplifier J	1	IC11	T2I
653	3605008005070	Operation amplifier NJM2904V 2 operation amplifier J	1	IC12	B4A
654	3503010000010	FET 2SJ243-T1-A P-c	1	Q140	B1F
655	3609004005280	Reset IC PST9140NR MITSU	1	IC6	T2B
656	3503020000010	FET 2SK1588-T1-AZ N	1	Q115	T2F
657	3504990000020	FET RD07MVS1-T112 P	1	Q129	B3H
658	3503020000030	FET 2SK1824-T1-A N-	1	Q104	T3F
659	3503020000030	FET 2SK1824-T1-A N-	1	Q120	B3C
660	3503020000030	FET 2SK1824-T1-A N-	1	Q130	T2H
661	3503020000030	FET 2SK1824-T1-A N-	1	Q133	T2J
662	3503040000010	FET UPA672T-T1-A N-	1	Q109	B2H
663	3603002005440	IF processing IC TA31136FNG(EL	1	IC10	B4B
664	3499000000140	Transistor 2SK508-K52-T1B-A	1	Q142	B2G
665	3603008005040	Operation amplifier NJM2902V 4 operation amplifier J	1	IC9	B3B
666	3605002054590	Operation amplifier TA75W01FU(TE12	1	IC8	T1B
667	3104072250010	Ta-capacitor 0805 2.2UF M 10V	1	C110	T3E
668	3104072250010	Ta-capacitor 0805 2.2UF M 10V	1	C126	T5H
669	3104072250010	Ta-capacitor 0805 2.2UF M 10V	1	C57	B4A
670	3101051000020	Chip capacitor 0402 10PF J 50V	1	C119	T3F
671	3101051000020	Chip capacitor 0402 10PF J 50V	1	C87	T3B
672	3101051000020	Chip capacitor 0402 10PF J 50V	1	C90	T3B
673	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C107	T2C
674	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C122	T3G
675	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C301	T2A
676	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C505	B2C
677	3104074750030	Ta-capacitor 0805 4.7UF M 10V	1	C548	B2G
678	3701357930010	Crystal 3.579545MHz NX125	1	X1	T5F

Adjustment Description

This radio has different kinds of adjustment parameter. The adjustment parameters are divided into different items according to wideband/narrowband and center, low and high frequency. You can adjust the radio by programming software or through manual adjust mode.

1. Instruments:

1. Communication analyzer 1 set
2. Frequency scanner 1 set
3. 3A/10V DC power source 1 set
4. Digital multi meter 1 set
5. 3A Ammeter 1 set

2. Adjustment:

1. Initialization:

It is necessary to initialize the radio because there is useless data in EEPROM. Short out the two SELF points, the radio enters all reset mode. Use channel selector knob to select radio destination. Press [PTT] and [MONI] simultaneously, the radio data are all initialized. Please refer to "5.1 All Reset Mode" in "Radio Modes" for more details.

2. Adjustment:

TC-265/365 can be adjusted by manual adjust mode or through PC programming software. The following table describes the adjustment details of manual adjust mode.

3. Manual Adjust Mode

Item	Condition	Measurement			Adjustment		Specifications /Remarks
		Test equipment	Condition	Terminal	Parts	Method	
1.PLL frequency stability and VCO lock voltage	1.Frequency stability	Communication analyzer		ANT	VR1	Frequency stability≤5PPM	
	2. Receive VCO adjustment. Release PTT.	Digital Multi-meter		CV	TC2	high frequency: 3.8V±0.1V	Check Low frequency CV: ≥0.7V
	3. Transmit VCO adjustment. Press PTT.	Digital multi-meter		CV	TC1	high frequency: 3.8V±0.1V	
	4. Transmit tone deviation adjustment and check.	Communication analyzer FILTER: 0.3-3.4KHz	MIC AF: 1KHz 12mv±3mv	ANT	VR501	3.0KHz (wideband) 1.5KHz(narrowband)	
		LPF: 15KHz	1KHz 120mv			≤4.3KHz (wideband) ≤2.2KHz (narrowband)	Adjust at low frequency.

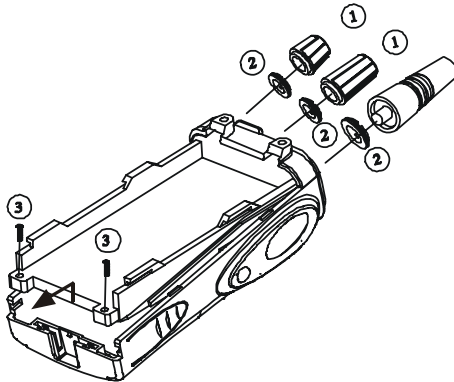
2. RF BPF	Adjust TC-201, TC-202 and TC-203 at center, low and high frequency. Receiver sensitivity can be tested in adjustment mode.	Frequency scanner Communication analyzer FILTER: 0.3-3.4KHz	SSG output: Wideband: -119dBm MOD: 1.0KHz DEV: 3.0KHz Narrow-band: -118dBm MOD: 1.0KHz DEV: 1.5KHz	TP2 ANT SPK	TC-201 TC-202 TC-203 PTT (upward) MONI (downward)	Adjust undee at the scanner to the top with proper bandwidth. The sign of low/center/high frequency is on the left/middle/right of the undee respectively.	Wideband/ narrowband at center, low and high frequency SINAD: 12dB or higher
3. Squelch level 9	Adjust at center, low and high frequency.	Communication analyzer	SSG output: -116dBm	ANT SPK	PTT (upward) MONI (downward)	Adjust to close the squelch.	Adjust at center, low and high frequency.
4. Squelch level 3	Adjust at center, low and high frequency.	Communication analyzer	SSG output: -123dBm	ANT SPK	PTT (upward) MONI (downward)	Adjust to close the squelch.	Adjust at center, low and high frequency.
5. Transmit power	Adjust at center, low and high frequency.	Communication analyzer Digital ammeter		ANT	PTT (upward) MONI (downward)	$3.8W \leq P_o \leq 4.5W$ $I \leq 1.6A$	Adjust at center, low and high frequency.
6. CTCSS deviation	Adjust at center, low and high frequency. Adjust wideband at group 0 and narrowband at group 2. CTCSS signal is 67.0Hz. Save the value. (Adjust wideband at group 1 and narrowband at group 3. CTCSS signal is 250.3Hz. Adjust CTCSS balance at VR500.)	Communication analyzer LPF: 300Hz		ANT	PTT (upward) MONI (downward) Adjust CTCSS balance at VR500.	Wideband: 0.75KHz±50Hz Narrowband: 0.35KHz±50Hz	Difference of CTCSS deviation at center, low and high frequency ≤ 50Hz.

7.CDCSS deviation	Adjust at center, low and high frequency. Adjust wideband at group 0 and narrowband at group 2. CDCSS is +023. Save the value. (Adjust wideband at group 1 and narrowband at group 3. CDCSS is +754. Adjust CDCSS balance at VR500.)	Communication analyzer LPF: 300Hz		ANT	PTT (upward) MONI (downward) Adjust CDCSS balance at VR500.	Wideband: 0.75KHz±50Hz Narrowband: 0.35KHz±50Hz	Difference of CDCSS deviation at center, low and high frequency≤50Hz.
8.Tone deviation	Turn to any channel. Tone signaling is 1860Hz.	Communication analyzer LPF: 15KHz		ANT	PTT (upward) MONI (downward)	Wideband: 3.5KHz±100Hz Narrowband: 1.5KHz-2.0KHz	Adjust at any channel.
9.Low battery alert level	Turn to any channel. Adjust under maximum transmit power.	Digital multi meter	Adjust power supply voltage to 80% of the rate voltage: 5.8V		PTT (upward) MONI (downward)	Adjust so that red LED flashes.	Turn to any channel. Adjust under maximum transmit power.

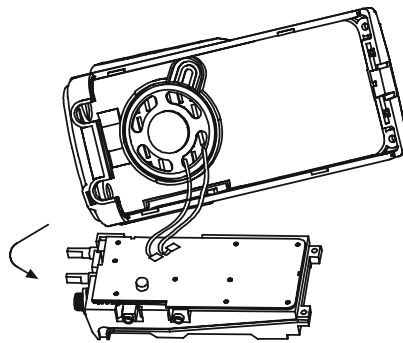
Disassembly for Repair

Remove the case assembly from the chassis

1. Remove the two knobs ① and three ring nuts ②.
2. Remove the two screws ③.
3. Expand the right and left sides of the bottom of the case assembly, lift the chassis, and remove it from the case assembly.



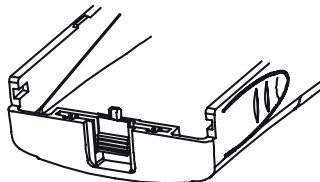
3. Taking care not to cut the speaker lead, separate the chassis and the front cover assembly.



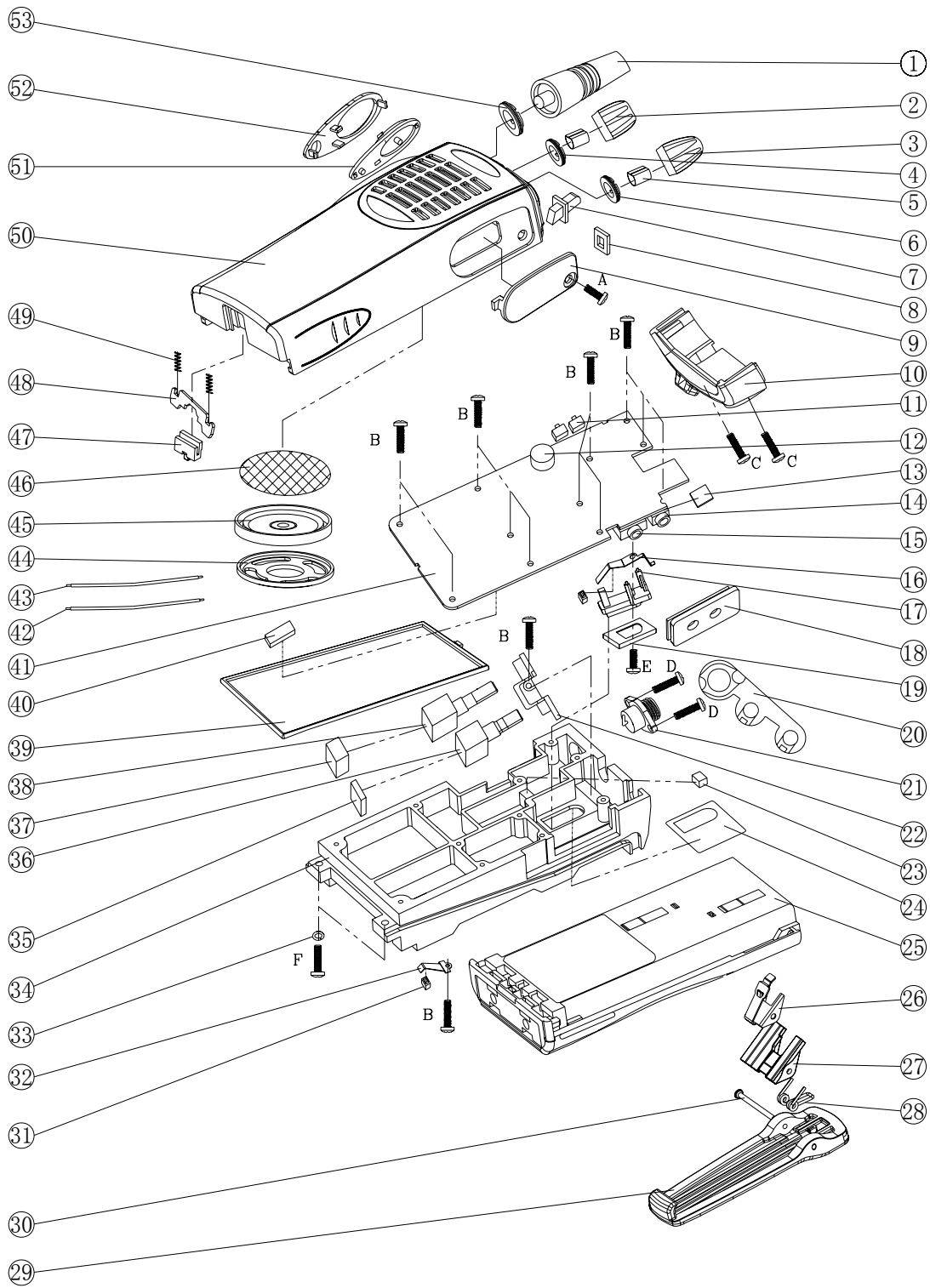
Remove the latch

Raise the latch on the bottom part of the case assembly, insert a small flat screwdriver into the space between the case and latch, open the case carefully and remove the latch.

Note: Do not force to separate the case from the latch.



Exploded View

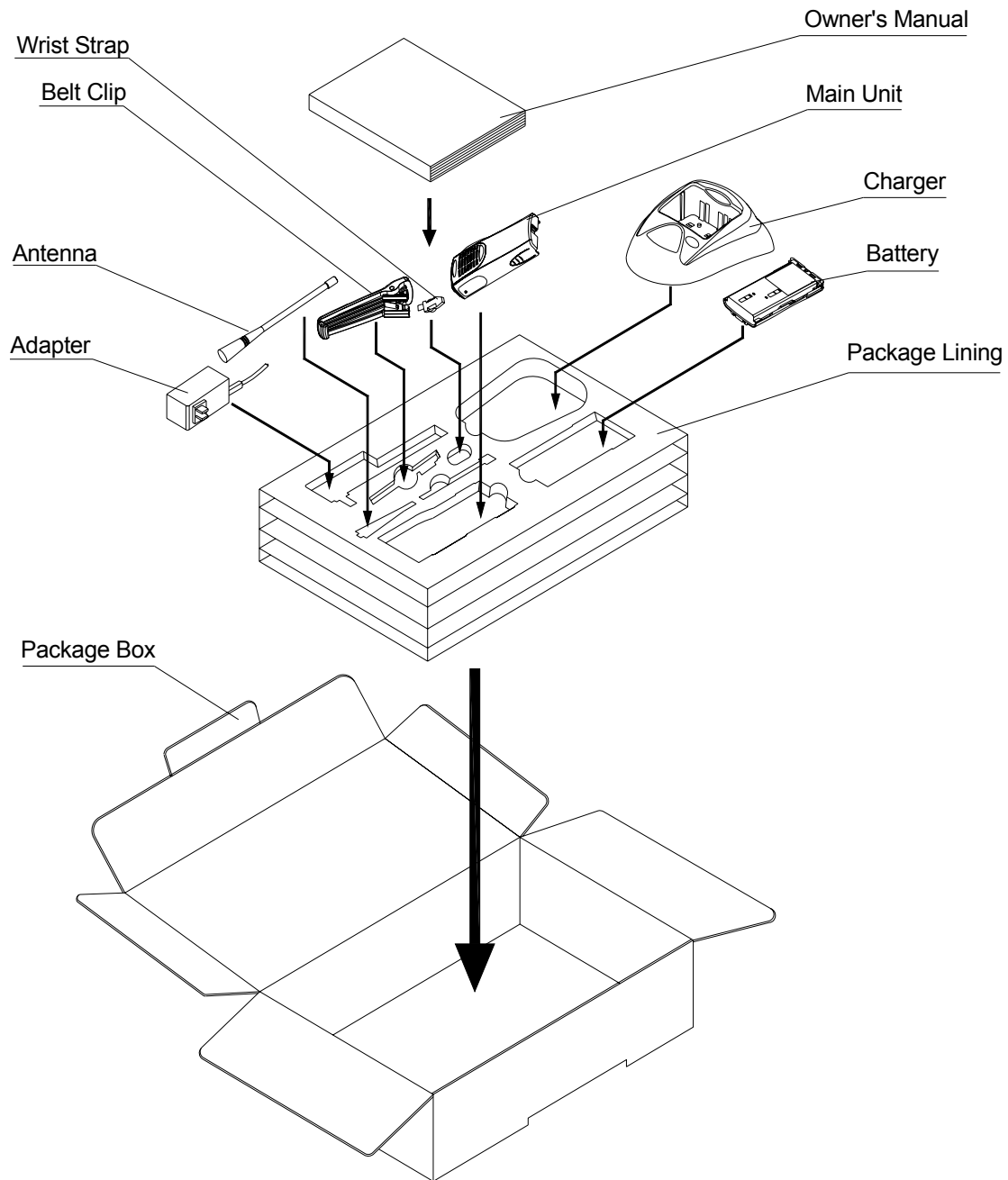


TC-265/365 Parts List 2

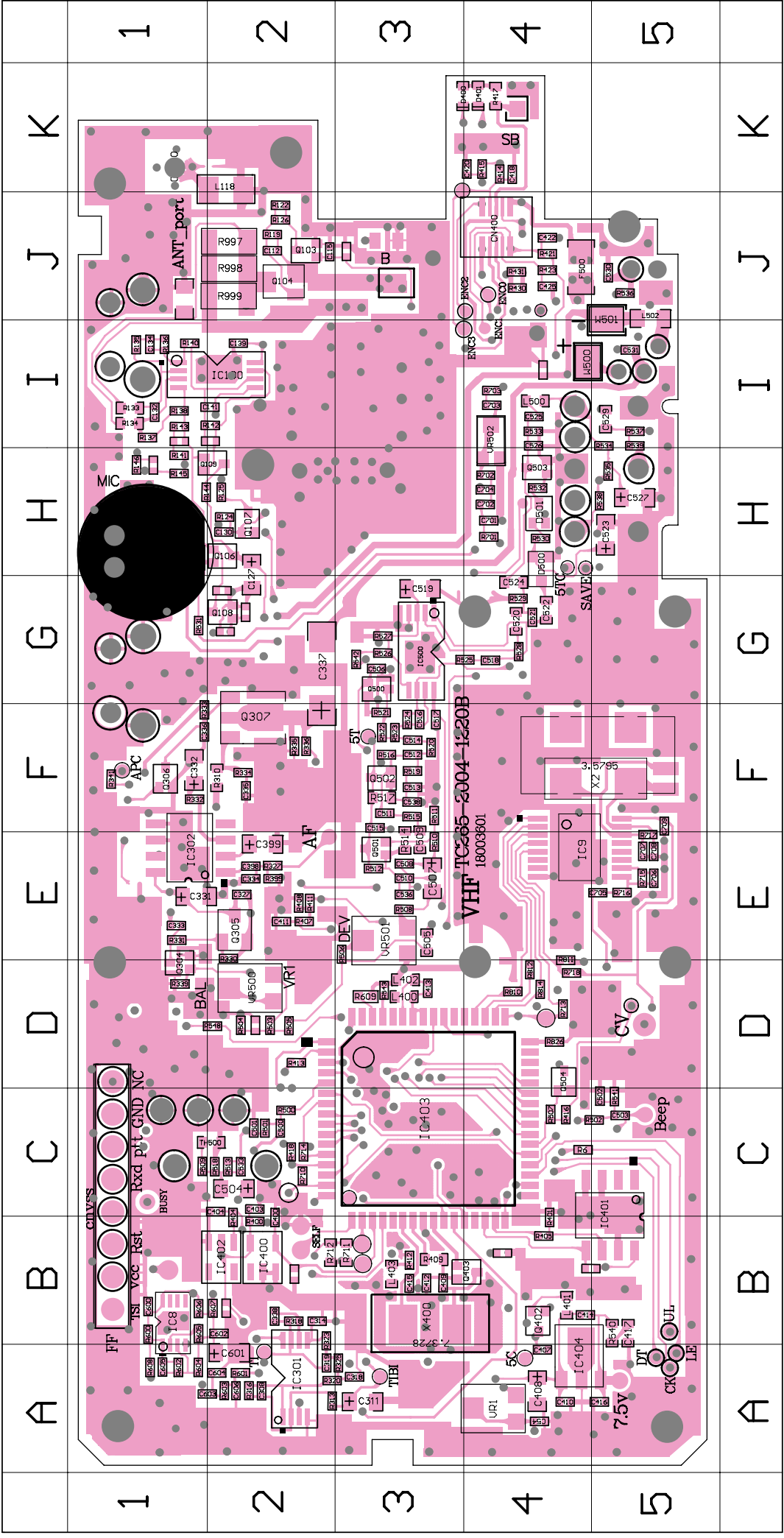
No.	Material No.	Description	Qty
1		Antenna	1
2	6000158000040	Volume knob 04(RoHS)	1
3	6000160000040	Volume knob 04(RoHS)	1
4	7207001200000	Nut 00 (RoHS)	1
5	6201006000000	Knob inner liner 0.25mm 00 (RoHS)	2
6	7206002000000	Nut M6.0*2.0mm 00 (RoHS)	1
7	6000163000000	Light-guide pip 00 (RoHS)	1
8	7500140000000	Dual-adhesive glue for light guide pipe 00 (RoHS)	1
9	6000155000000	Waterproof cover 00 (RoHS)	1
10	6000150000010	Rear cover 01(RoHS)	1
11	4301040000020	PTT switch (RoHS)	2
12	5002110000030	Mic (RoHS)	1
13	7400074000000	PVC cushion 00 (RoHS)	1
14	5205000000090	Louderspeaker jack HSJ1102-0105109 (RoHS)	1
15	5205000000080	Mic jack HSJ0861-0104109 (RoHS)	1
16	6201061100000	Battery positive plate 0.20mm SUS304 00 (RoHS)	1
17	6000117000020	Positive plate bracket ABS 02(RoHS)	1
18	6100090000000	Waterproof rubber cushion for jack 00 (RoHS)	1
19	7500145000000	Bracket waterproof cushion 00 (RoHS)	1
20	6100087000000	End face waterproof cover 00 (RoHS)	1
21	4400100008000	SMA connector, antenna pedestal (RoHS)	1
22	6000166000030	Switch bracket 03(RoHS)	1
23	6100096000000	FET cushion 00 (RoHS)	1
24	7400072000000	Aluminum chassis insulation sheet 00 (RoHS)	1
25		Battery	1
26	6201035000010	Belt clip shrapnel 01(RoHS)	1
27	6300010000000	Belt clip mental holder 00 (RoHS)	1
28	7000018000020	Belt clip spring 02(RoHS)	1
29	6000190000050	Belt clip 00 (RoHS)	1
30	7000020000010	Belt clip shaft	1
31	6100101000010	Battery connector 01(RoHS)	2
32	6201059100000	Battery negative connector 0.20mmSUS304 00 (RoHS)	1
33	6201068000000	Flexible washer 00 (RoHS)	2
34	6300020000000	Aluminum chassis 00 (RoHS)	1
35	7500181000000	Cushion 00 (RoHS)	1
36	4302020000030	Volume knob (RoHS)	1
37	7500143000000	Sponge cushion for encode switch 00 (RoHS)	1
38	4304030000010	Gray-code channel switch (RoHS)	1
39	6100088000000	Waterproof ring for aluminum chassis 00 (RoHS)	1
40	7500010000000	Soft cushion 00 (RoHS)	1
41		PCB	1
42	4210080000000	Black lead (RoHS)	1
43	42100800000300	Red Lead (RoHS)	1

44	5001010000020	Speaker 426539(036S23) 4Ω 0.5W D: 36mm (RoHS)	1
45	6100078000000	Speaker gasket 00 (RoHS)	1
46	7400065000010	Grill cloth 01(RoHS)	1
47	6000112100010	Battery latch PC+ABS1200HF 01(RoHS)	1
48	6201060000000	Battery latch metal sheet 00 (RoHS)	1
49	7000030000010	Battery latch spring 01(RoHS)	2
50	6000147000060	Radio unit front case 06(RoHS)	1
51	6100085000010	PTT key 01(RoHS)	1
52	6000157000000	PTT key cover PC+ABS 00 (RoHS)	1
53	7209002200000	Nut M9.0*2.2mm 00 (RoHS)	1
A	7103006001000	Machine screw M3.0*6.0mm 00 (RoHS)	1
B	7102004020050	Self-tapping screw ST2.0*4.0mm 05(RoHS)	13
C	7103006001010	Machine screw M3.0*6.0mm 01(RoHS)	2
D	7102504000300	Machine screw M2.5*4.0mm 00 (RoHS)	2
E	7102604020000	Self-tapping screw ST2.6*4.0mm 00 (RoHS)	1
F	7102506000200	Machine screw M2.5*6.0mm 00 (RoHS)	2

Packing

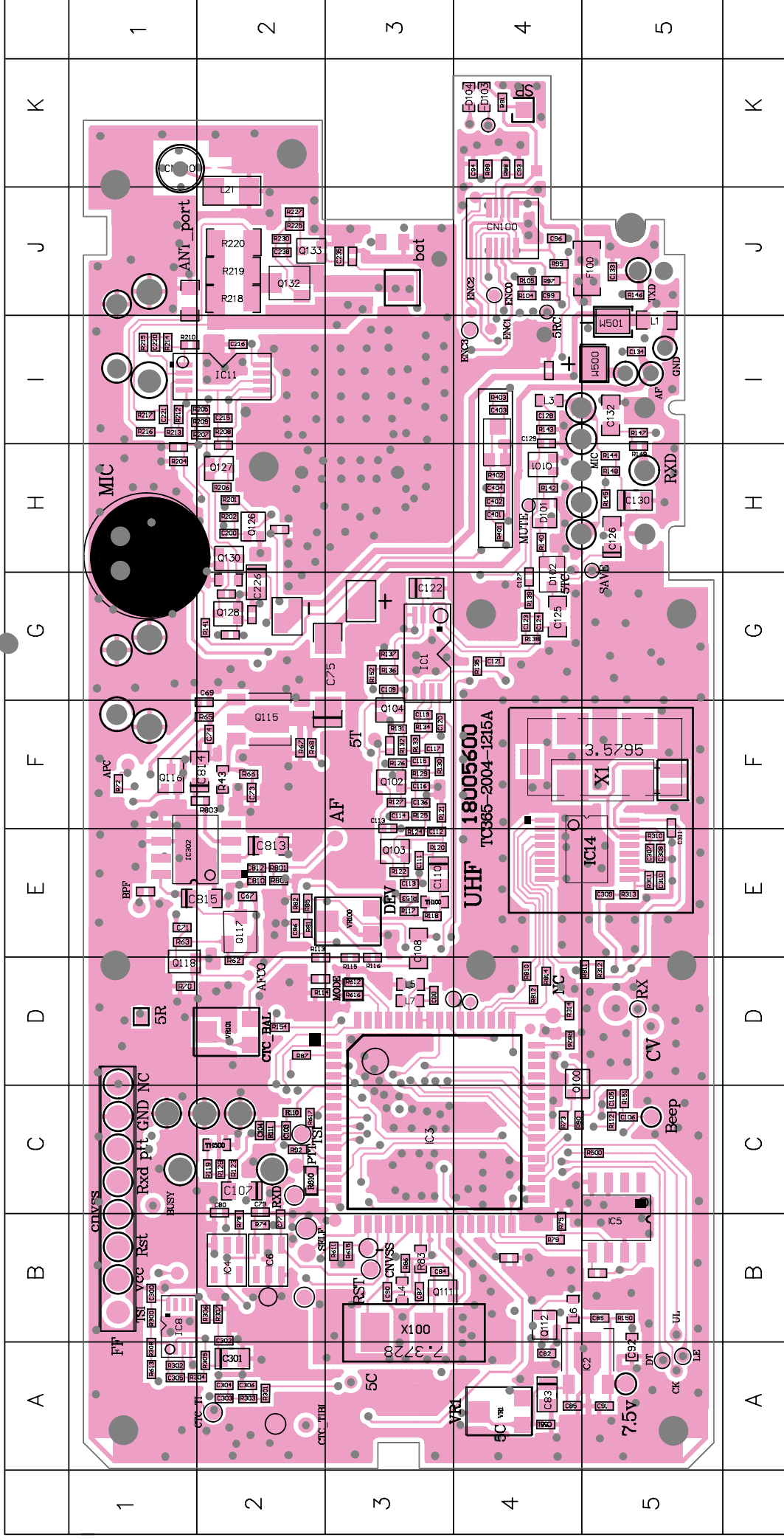


Top Layer



TC-365 PC Board View

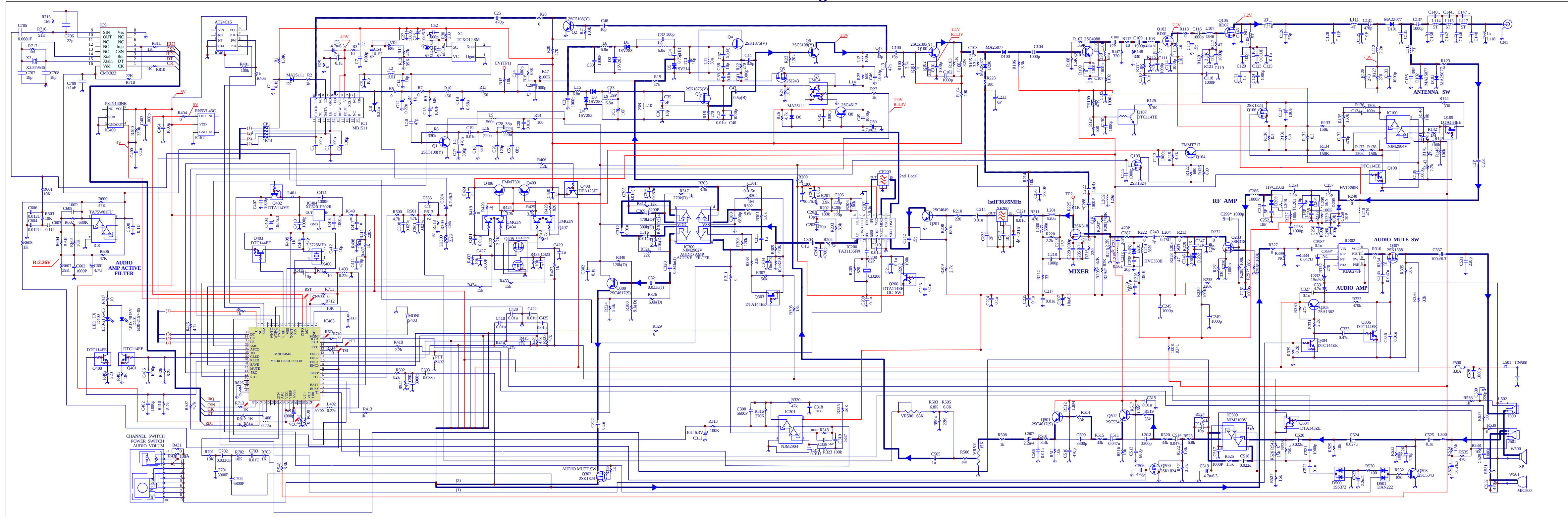
Top Layer



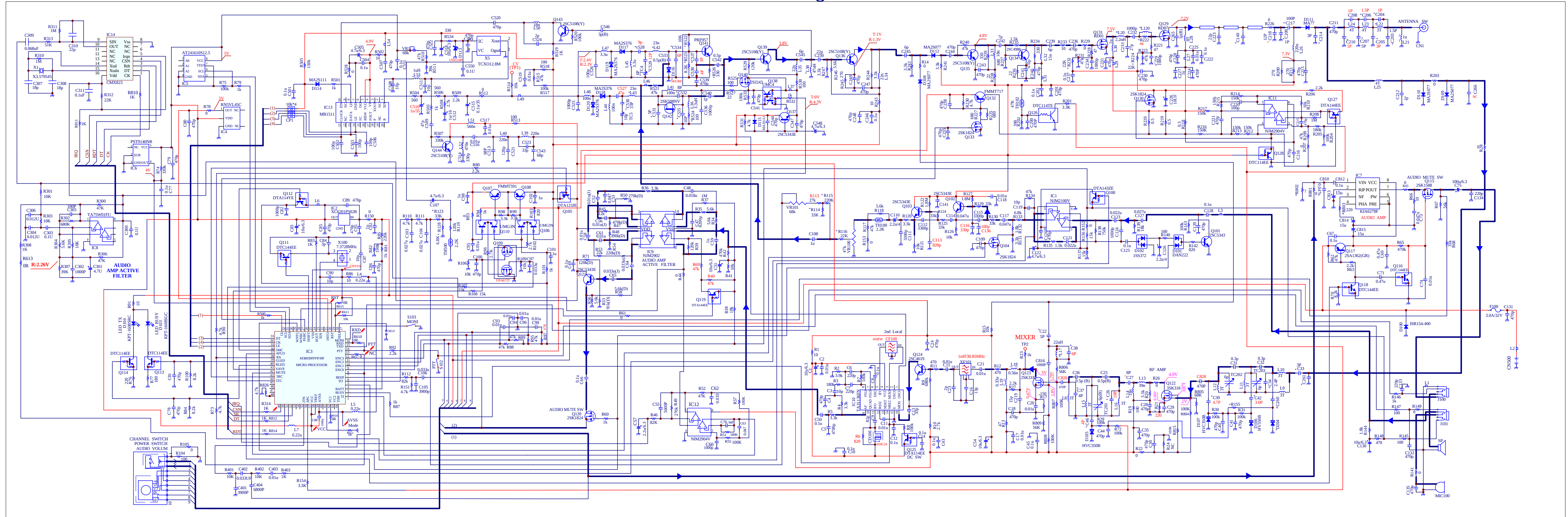
TC-365 PC Board View

The image displays a complex PCB layout for a 16-channel 12-bit ADC module. The layout is organized into a grid with columns labeled A through K and rows labeled 1 through 5. The components are densely packed, with numerous resistors (R), capacitors (C), and integrated circuits (ICs) visible. Key components include the ADC ICs (IC12, IC13, IC14, IC15, IC16, IC17, IC18, IC19, IC20, IC21, IC22, IC23, IC24, IC25, IC26, IC27, IC28, IC29, IC30, IC31, IC32, IC33, IC34, IC35, IC36, IC37, IC38, IC39, IC40, IC41, IC42, IC43, IC44, IC45, IC46, IC47, IC48, IC49, IC50, IC51, IC52, IC53, IC54, IC55, IC56, IC57, IC58, IC59, IC60, IC61, IC62, IC63, IC64, IC65, IC66, IC67, IC68, IC69, IC70, IC71, IC72, IC73, IC74, IC75, IC76, IC77, IC78, IC79, IC80, IC81, IC82, IC83, IC84, IC85, IC86, IC87, IC88, IC89, IC90, IC91, IC92, IC93, IC94, IC95, IC96, IC97, IC98, IC99, IC100, IC101, IC102, IC103, IC104, IC105, IC106, IC107, IC108, IC109, IC110, IC111, IC112, IC113, IC114, IC115, IC116, IC117, IC118, IC119, IC120, IC121, IC122, IC123, IC124, IC125, IC126, IC127, IC128, IC129, IC130, IC131, IC132, IC133, IC134, IC135, IC136, IC137, IC138, IC139, IC140, IC141, IC142, IC143, IC144, IC145, IC146, IC147, IC148, IC149, IC150, IC151, IC152, IC153, IC154, IC155, IC156, IC157, IC158, IC159, IC160, IC161, 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TC-265 Schematic Diagram



TC-365 Schematic Diagram



Specifications

General	
Frequency Range (MHz)	TC-265 : 146~174 TC-365 : 440~470
Channel Capacity	16
Channel Spacing (KHz)	25(W)/ 12.5(N)
Antenna Impedance (Ω)	50
Microphone Impedance (K Ω)	2
Operating Voltage (V)	7.5
Frequency Stability (ppm)	$\leq \pm 2.5$
Transmitter	
RF Power Output (W)	5 (UHF)/4 (VHF)
Modulation Sensitivity (mV)	12 $\pm$ 3
Modulation Distortion (%)	≤ 5
Modulation Limiting (KHz)	≤ 5 (W)/2.5 (N)
Audio Response (6dB/Octave)	± 3
RF Spurious Emissions(dBm)	-36 (<1GHz)/-30(>1GHz)
Adjacent Channel Power(dB)	-70 (W)/ -60(N)
Receiver	
Reference Sensitivity (μ V)	≤ 0.25 (W)/0.28 (N)
Audio Squelch Sensitivity (μ V)	≤ 0.4
Audio Power(mW)	500
Audio Distortion(%)	≤ 5
Bandwidth(KHz)	$\geq \pm 7 $ (W)/ $ \pm 3.5 $ (N)
Audio Response(-6dB/Octave)	-8/+2
Co-channel rejection(dB)	≥ -8
Blocking(dB)	≥ 84
Adjacent Channel selectivity(dB)	≥ 70 (W) / 60(N)
Spurious Response rejection(dB)	≥ 70
Intermodulation (dB)	≥ 65 (W)/60 (N)

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