

UHF FM TRANSCEIVER / UHF 调频对讲机

# TK-3307

SERVICE MANUAL / 维修手册

SUPPLEMENT / 追补版

# KENWOOD

Kenwood Corporation

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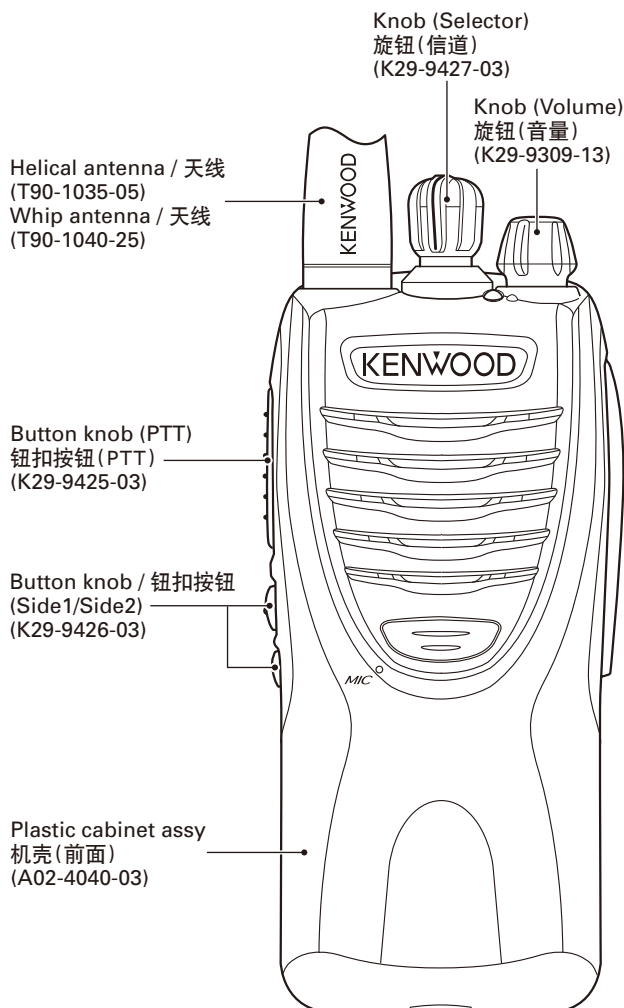
## X2,C6 Versions / X2,C6 版本

This TK-3307 (X2,C6) service manual contains a number of sections which differ from the service manual (B51-8839-00) for the TK-3307 (M,M2,C,C2,X).

For item other than those in this TK-3307 service manual, please refer to the service manual (B51-8839-00) for the TK-3307.

本 TK-3307 (X2, C6) 维修手册记述了不同于 TK-3307 (M, M2, C, C2, X) 用维修手册 (B51-8839-00) 部分的内容。

对于本 TK-3307 (X2, C6) 维修手册中未予记载的项目, 请参阅 TK-3307 (M, M2, C, C2, X) 的维修手册 (B51-8839-00)。



### 无铅焊接通信产品

### 保护环境建伍领先

⚠ 注意：本产品是无铅化焊接产品  
在维修时请使用无铅焊锡  
和相应的焊接工具  
详细事项请访问如下网址了解：  
<http://www.kenwoodhk.com.hk/>

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## GENERAL / 概述

### INTRODUCTION

#### SCOPE OF THIS MANUAL

This manual is intended for use by experienced technicians familiar with similar types of commercial grade communications equipment. It contains all required service information for the equipment and is current as of the publication date. Changes which may occur after publication are covered by either Service Bulletins or Manual Revisions. These are issued as required.

#### ORDERING REPLACEMENT PARTS

When ordering replacement parts or equipment information, the full part identification number should be included. This applies to all parts : components, kits, or chassis. If the part number is not known, include the chassis or kit number of which it is a part, and a sufficient description of the required component for proper identification.

#### PERSONAL SAFETY

The following precautions are recommended for personal safety:

- DO NOT transmit until all RF connectors are verified secure and any open connectors are properly terminated.
- SHUT OFF and DO NOT operate this equipment near electrical blasting caps or in an explosive atmosphere.
- This equipment should be serviced by a qualified technician only.

#### SERVICE

This transceiver is designed for easy servicing. Refer to the schematic diagrams, printed circuit board views, and alignment procedures contained within.

Model	Type	TX-RX unit	Frequency range	Remarks
TK-3307	X2	X57-7580-22	470~520MHz	IF1: 38.85MHz LOC: 38.4MHz
	C6	X57-7583-01	350~390MHz	

### 引言

#### 本手册的范围

本手册是提供给熟悉通信专业并且具有维修经验的技术人员使用的。它包括了维修该设备所需要的全部资料和现行出版日期。在出版后可能发生变动，如果需要，可以参照《维修通报》或《手册修订本》进行补充。

#### 替换零件的订购

当订购替换零件或设备资料时，应注意完整的零件识别号码。所有的零件均有识别号码：元件，组件或机壳。如果不知道零件的号码，为了正确地识别，必须注明此元件所属的机壳或组件的号码，并对元件进行充分的说明。

#### 个人安全

为了个人的安全，请注意下列事项：

- 在没有认真核实所有射频插头之前或有任何一个脱开的插头没有连接到相应端口上的情况下均不要发射。
- 在电爆管附近或在易燃性气体环境中，必须关闭电源，不要操作本设备。
- 本设备只应该由有资格的技术人员进行维修。

#### 维修服务

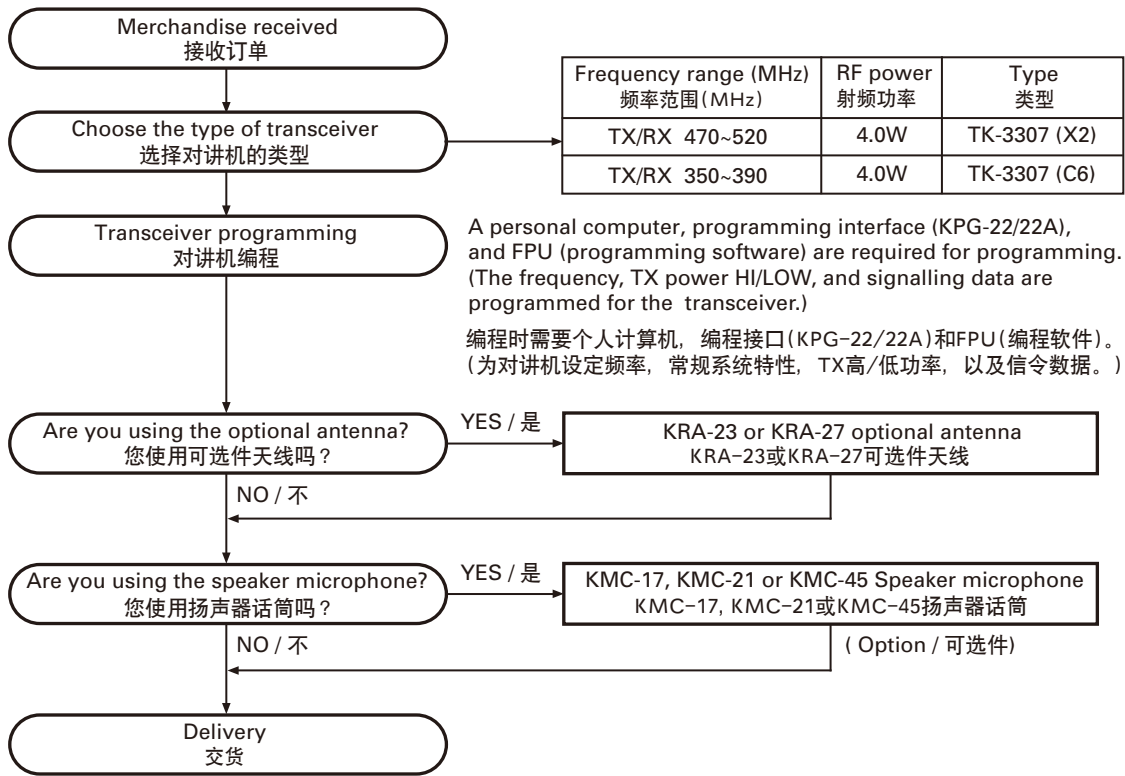
为了便于维修本设备，建立了完整的维修服务体系，提供了包括原理图，印刷电路板图和调整步骤在内的资料供参考。

型号	类型	TX-RX 单元	频率范围	备注
TK-3307	X2	X57-7580-22	470~520MHz	IF1: 38.85MHz LOC: 38.4MHz
	C6	X57-7583-01	350~390MHz	

### Service Manual List / 维修手册表

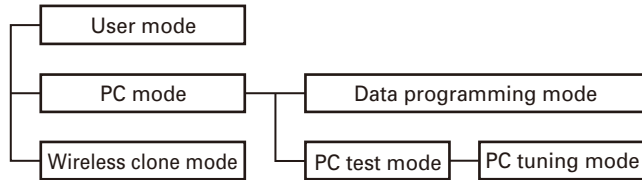
Title / 型号	Parts number / 零件号码	Remarks / 备注	Market code / 市场代码
TK-3307	B51-8839-00		M, M2, C, C2, X
TK-3307	B51-8851-00 This service manual / 本维修手册	SUPPLEMENT / 追补版	X2, C6

## SYSTEM SET-UP / 系统体系



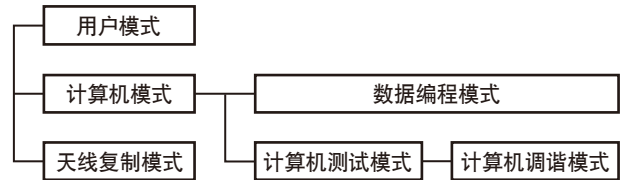
## REALIGNMENT / 模式组合

### 1. Modes



Mode	Function
User mode	For normal use.
PC mode	Used for communication between the transceiver and PC.
Data programming mode	Used to read and write frequency data and other features to and from the transceiver.
PC test mode	Used to check the transceiver using the PC. This feature is included in the FPU.
Wireless clone mode	Used to transfer programming data from one transceiver to another.

### 1. 模式



模式	功能
用户模式	一般使用
计算机模式	用户对讲机与计算机之间的通信。
数据编程模式	用于读出和写入频率数据以及其他功能。
计算机测试模式	用于使用计算机来检测对讲机。此功能包括在 FPU。
天线复制模式	用于从一个对讲机编程数据复制到另一个对讲机。

# REALIGNMENT / 模式组合

## 2. How to Enter Each Mode

Mode	Operation
User mode	Power ON
PC mode	Received commands from PC
Wireless clone mode	[PTT]+[Side2]+Power ON (Two seconds)

## 3. PC Mode

### 3-1. Preface

The transceiver is programmed by using a personal computer, a programming interface (KPG-22/22A, USB adapter (KCT-53U)) and FPU (programming software).

The programming software can be used with a PC or compatible. Figure 1 shows the setup of a PC for programming.

### 3-2. Connection Procedure

1. Connect the transceiver to the personal computer with the interface cable and USB adapter (when the interface cable is KPG-22A, the KCT-53U can be used).

#### Notes:

- You must install the KCT-53U driver in the computer to use the USB adapter (KCT-53U).
- When using the USB adapter (KCT-53U) for the first time, plug the KCT-53U into a USB port on the computer with the computer power ON.

2. When the POWER is switched on, user mode can be entered immediately. When the PC sends a command, the transceiver enters PC mode.

When data is read from the transceiver, the red LED lights.

When data is written to by the transceiver, the green LED lights.

#### Notes :

- The data stored in the personal computer must match Model Name and Model Type when it is written into EEPROM.
- Do not press the [PTT] key during data transmission or reception.

### 3-3. KPG-22/KPG-22A Description (PC programming interface cable : Option)

The KPG-22/22A is required to interface the transceiver with the computer. It has a circuit in its D-sub connector (KPG-22: 25-pin, KPG-22A: 9-pin) case that converts the RS-232C logic level to the TTL level.

The KPG-22/22A connects the SP/MIC connector of the transceiver to the RS-232C serial port of the computer.

### 3-4. KCT-53U Description (USB adapter : Option)

The KCT-53U is a cable which connects the KPG-22A to a USB port on a computer.

When using the KCT-53U, install the supplied CD-ROM (with driver software) in the computer. The KCT-53U driver runs under Windows 2000 or XP.

## 2. 如何进入每一种模式

模式	操作
用户模式	接通电源
计算机模式	从计算机接收指令
天线复制模式	[PTT]+[侧面 2]+ 接通电源 (2 秒钟)

## 3. PC 模式

### 3-1. 前言

对讲机采用个人电脑、编程接口 (KPG-22/22A, USB 适配器 (KCT-53U)) 和 FPU (编程软件) 进行编程。

编程软件可以在 PC 或兼容的 PC 上进行使用。图 1 给出了 PC 进行编程的设置。

### 3-2. 连接操作

1. 使用接口电缆和 USB 适配器将对讲机连接到个人电脑 (接口电缆为 KPG-22A 时, 可以使用 KCT-53U)。

#### 注意:

- 必须在电脑上安装 KCT-53U 驱动程序才能使用 USB 适配器 (KCT-53U)。
- 首次使用 USB 适配器 (KCT-53U) 时, 请在电脑开机的情况下将 KCT-53U 插入电脑的 USB 端口。

2. 对讲机电源打开时, 可以立即进入用户模式。PC 发送指令时, 对讲机进入 PC 模式。

对讲机发送数据时, 红色的 LED 点亮。

对讲机接收数据时, 绿色的 LED 点亮。

#### 注意:

- 个人电脑保存的数据写入 EEPROM 时, 必须与机型和类型相符。
- 请勿在数据发送或接收期间按 [PTT] 键。

### 3-3. KPG-22/KPG-22A 说明 (PC 编程接口电缆: 选购件)

将对讲机与电脑相连需要 KPG-22/22A。该电缆的 D-sub 连接器 (KPG-22: 25 针, KPG-22A: 9 针) 盒具有将 RS-232C 逻辑电平转换为 TTL 电平的电路。

KPG-22/22A 将对讲机的 SP/MIC 连接器连接到电脑的 RS-232C 串行端口。

### 3-4. KCT-53U 说明 (USB 适配器: 选购件)

KCT-53U 是将 KPG-22A 连接到电脑 USB 端口的电缆。

使用 KCT-53U 时, 请在电脑上安装附带的 CD-ROM (带有驱动程序软件)。KCT-53U 驱动程序运行于 Windows 2000 或 XP 下。

## REALIGNMENT / 模式组合

### 3-5. FPU (Programming Software) Description

The FPU is the programming software for the transceiver supplied on a CD-ROM. The software on this disk allows a user to program the transceiver transceivers via Programming interface cable (KPG-22/22A).

### 3-6. Programming with PC

If data is transferred to the transceiver from a PC with the FPU, the data for each set can be modified.

Data can be programmed into the EEPROM in RS-232C format via the SP/MIC jack.

In this mode the PTT line operate as TXD and RXD data lines respectively.

### 3-5. FPU (编程软件) 说明

FPU 是 CD-ROM 附带的用于对讲机的编程软件。该光盘上的软件允许用户通过编程接口电缆 (KPG-22/22A) 对对讲机进行编程。

### 3-6. 使用 PC 编程

如果使用 FPU 将数据从 PC 传输到对讲机，则每套对讲机的数据均可修改。

通过 SP/MIC 插孔可以将数据以 RS-232C 格式写入 EEPROM。在该模式下，PTT 线路分别用作 TXD 和 RXD 数据线路。

#### List of FPU for transceiver

Model	Type	FPU
TK-3307	X2	KPG-118D(M)
	C6	KPG-118D(C)

#### 对讲机的 FPU 名单

型号	类型	FPU
TK-3307	X2	KPG-118D(M)
	C6	KPG-118D(C)

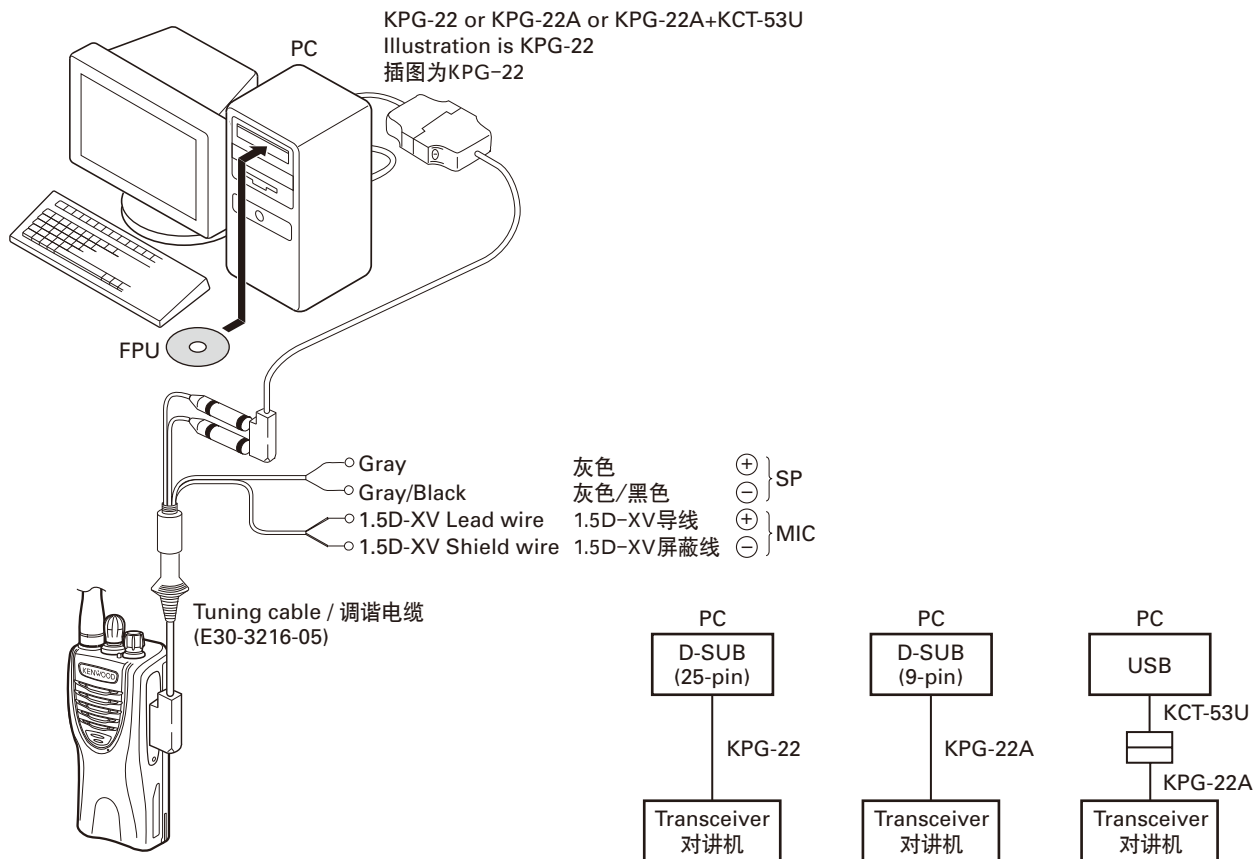


Fig. 1 / 图 1

## REALIGNMENT / 模式组合

### 4. Wireless Clone Mode

#### 4-1. Outline

“Wireless Clone Mode” copies the transceiver data to another transceiver.

The dealer can copy the transceiver data to another transceiver even without the use of a personal computer.

#### 4-2. Example

The transceiver can copy the programming data to one or more transceivers via RF communication.

The clone source and clone target/s must be in wireless clone mode.

#### 4-3. Operation

- To switch the clone target/s to wireless clone mode, press and hold the [PTT] and [side2] keys while turning the transceiver power ON.
- Wait for 2 seconds. The LED will light orange and the transceiver will announce “Clone”.
- Select a channel table number using Side1 (increment channel table) and Side2 (decrement channel table) keys.
- To switch the clone source to wireless clone mode, press and hold the [PTT] and [side2] keys while turning the transceiver power ON.
- Wait for 2 seconds. The LED will light orange and the transceiver will announce “Clone”.
- Select the same channel table number as the clone target/s.
- Press [PTT] on the clone source to begin data transmission.  
When the clone target starts to receive data, the LED will light green.  
When the clone source finishes sending data, a “confirmation” tone will sound.  
If data transmission fails while cloning, an “error” tone will sound from the target unit.
- If the cloning fails, no data will be available in the target unit when it is returned to User mode.
- When the cloning is successful, the target unit’s “Scan” and “Key lock” functions will return to their default values (Scan = OFF, Key lock = OFF).

#### Notes:

- The dealer can clone data to two or more transceivers by repeating the above procedures.
- If the transceivers wireless clone mode is configured as “Disabled”, the transceiver cannot enter wireless clone mode.
- The table shown below will cover the frequency tables used for wireless cloning.
- Wireless clone mode cannot be entered in battery low state.
- A unit cannot be a “Source Unit” if it is unprogrammed. If [PTT] is pressed, an “error” tone will sound.
- The language used in cloning depends on the “Model type” setting, not the FPU setting.

### 4. 天线复制模式

#### 4-1. 概要

“天线复制模式”可以将一台对讲机的数据复制到其它的对讲机。

经销商甚至不使用个人电脑也可以将一台对讲机的数据复制到其它的对讲机。

#### 4-2. 例：

对讲机可以通过 RF 通信复制编程数据到一台或更多的对讲机。

复制主机和复制子机必须处于天线复制模式。

#### 4-3. 操作方法

- 将子机切换到天线复制模式，旋转对讲机电源的同时，持续按 [PTT] 键和 [侧 2] 键。
- 等待 2 秒。LED 将呈橘黄色并且对讲机将发出“复制”的声音。
- 用侧 1 (频道表递增) 键和侧 2 (频道表递减) 键选择频道表号码。
- 将主机切换到天线复制模式，旋转对讲机电源的同时，持续按 [PTT] 键和 [侧 2] 键。
- 等待 2 秒。LED 将呈橘黄色并且对讲机将发出“复制”的声音。
- 选择与复制子机相同的频道表号码。
- 按复制主机上的 [PTT]，开始数据传输。  
当复制子机开始接收数据时，LED 将呈绿色。  
当复制主机完成传送数据时，将发出一个“确认”音。  
如果在复制过程中数据传输失败，子机将发出一个“错误”音。
- 如果复制失败，子机回到用户模式时数据随即消失。
- 当复制成功时，子机的“扫描”和“键锁定”功能将回到它们的初始值 (扫描 =OFF, 键锁定 =OFF)

#### 注释：

- 经销商可以反复上述过程复制数据到 2 个或更多的对讲机。
- 如果对讲机天线复制模式被设置为“无效”，则对讲机不能进入天线复制模式。
- 下表包含了无线复制用的频率表。
- 当电池处于低电压状态时不能进入天线复制模式。
- 如果对讲机是非编程的它将不能成为主机。如果按 [PTT]，将发出一个“错误”音。
- 复制时所用的语言是根据“样机类别”设置，而不是 FPU 设置。

## REALIGNMENT / 模式组合

- Once a unit is set to be the source, it cannot be a target after the data has been transmitted. This protects the data in the source unit.
- Electronic interface may cause a failure in data transfer during wireless clone, such as when waveforms or electromagnetics are being performed at the workbench.
- **Wireless clone mode can be used ONLY by the authorized service personnel.**
- **The wireless clone mode setting must be configured as "Disable" before being delivered to the end-user.**
- **To clone, replace the antenna from both the source transceiver and the target transceiver with a dummy load.**
- **The transmit output power is automatically set to Low in wireless clone mode.**

## • Clone frequency table

No.	Operating frequency (MHz)	
	X2	C6
	470~520	350~390
1	472.000	350.000
2	474.000	351.000
3	476.000	352.000
4	478.000	353.000
5	480.000	354.000
6	482.000	355.000
7	484.000	356.000
8	486.000	357.000
9	488.000	358.000
10	490.000	359.000
11	492.000	360.000
12	494.000	361.000
13	496.000	362.000
14	498.000	363.000
15	500.000	364.000
16	502.000	365.000
17	504.000	366.000
18	506.000	367.000
19	508.000	368.000
20	510.000	369.000

- 对讲机一旦被设置为主机，数据传送以后，它就不能成为子机。这是为了保护主机里的数据。
- 在无线复制的数据传输过程中，例如在工作台产生的电波或电磁干扰有可能引起传输失败。
- **天线复制模式可以仅被批准的服务人员使用。**
- **在交付给最终用户之前，天线复制模式设置必须被设置为“无效”。**
- 为了复制，将模拟负载代替主对讲机和子对讲机的天线。
- 在天线复制模式，发射功率自动设定为低。

## • 复制频率表

号码	操作频率 (MHz)	
	X2	C6
	470~520	350~390
1	472.000	350.000
2	474.000	351.000
3	476.000	352.000
4	478.000	353.000
5	480.000	354.000
6	482.000	355.000
7	484.000	356.000
8	486.000	357.000
9	488.000	358.000
10	490.000	359.000
11	492.000	360.000
12	494.000	361.000
13	496.000	362.000
14	498.000	363.000
15	500.000	364.000
16	502.000	365.000
17	504.000	366.000
18	506.000	367.000
19	508.000	368.000
20	510.000	369.000



# CIRCUIT DESCRIPTION / 电路说明

## 1. Frequency Configuration

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

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

## 1. 频率构成

本接收机使用二次变频。第一 IF 是 38.85MHz，第二 IF 是 450kHz。第一本地振荡信号由 PLL 电路提供。

PLL 电路产生需要的发射频率。

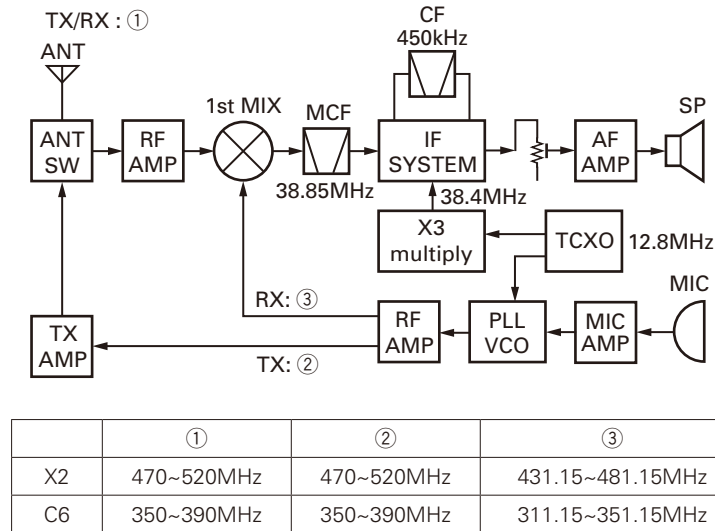


Fig. 1 Frequency configuration / 频率构成

# TK-3307

## PARTS LIST / 零件表

\* New Parts. Δ indicates safety critical components.

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

L : Scandinavia

Y : PX (Far East, Hawaii)

Y : AAFES (Europe)

K : USA

T : England

X : Australia

P : Canada

E : Europe

M : Other Areas

### TK-3307 (Y50-635X-XX)

### TX-RX UNIT (X57-758X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination
<b>TK-3307</b>					
1	1A		A02-4040-03	PLASTIC CABINET ASSY	
2	3A		A10-4124-01	CHASSIS	
4	2C,2E		B09-0725-03	CAP ACCESSORY	
7	1C		B62-2090-00	INSTRUCTION MANUAL	C,C2,C6
7	1C		B62-2108-00	INSTRUCTION MANUAL	X,X2
8	1E		B62-2113-00	INSTRUCTION MANUAL	M,M2
9	1A		D10-0649-03	LEVER	
10	1A		D21-0863-04	SHAFT	
11	1A		D32-0441-13	STOPPER	
13	2B		E04-0477-05	RF COAXIAL RECEPTACLE (SMA)	
14	3A		E23-1253-04	TERMINAL (BATT-)	
15	2A		E23-1254-04	TERMINAL (BATT+)	
16	2B		E37-1175-15	SP WIRE LEAD (BROWN)	
17	2B		E37-1176-15	SP WIRE LEAD (GREEN)	
19	3A		F20-3353-14	INSULATING SHEET (CHASSIS BATT+)	
21	1A		G01-4542-04	COIL SPRING (LEVER)	
22	1A		G01-4543-14	COIL SPRING (STOPPER)	
23	2A		G10-1330-04	FIBROUS SHEET (AUDIO IC)	
24	2A		G11-4465-04	RUBBER SHEET (FINAL FET)	
25	3B		G13-2009-04	CUSHION (CHASSIS)	
26	3A		G13-2033-04	CUSHION (BATT-)	
27	3A		G13-2034-14	CUSHION (CHASSIS-)	
28	3A		G13-2038-24	CUSHION (CHASSIS-CERAMIC FILTER)	
29	2A		G13-2039-14	CUSHION (PCB-CERAMIC FILTER)	
30	3A		G53-1604-03	PACKING (CHASSIS)	
31	2A		G53-1605-03	PACKING (BATT+)	
32	2A		G53-1609-14	PACKING (ECM)	
33	2B		G53-1799-03	PACKING (VOLUME/SELECTOR)	
34	1B		G53-1800-03	PACKING (SP/MIC)	
35	1B		G53-1801-03	PACKING (SPEAKER)	
36	2B		G53-1802-04	PACKING (SMA)	
38	2E	*	H12-4250-05	PACKING FIXTURE	M,M2
39	2D		H12-4251-05	PACKING FIXTURE	C,C2,X
39	2D		H12-4251-05	PACKING FIXTURE	C6,X2
42	3E	*	H52-2299-03	ITEM CARTON CASE	M,M2
43	3D		H52-2300-13	ITEM CARTON CASE	C,C2,X
43	3D		H52-2300-13	ITEM CARTON CASE	C6,X2
46	2A		J19-5463-03	HOLDER (BATT+)	
47	2A		J19-5473-03	HOLDER ASSY (BATT+)	
48	2C,2E		J19-5521-03	HOLDER (SP/MIC) ACCESSORY	
49	2B		J19-5522-03	SPEAKER CLASP	
50	2C,1E		J29-0734-05	BELT HOOK ACCESSORY	
51	2A		J82-0121-05	FPC	
52	1A		J99-0737-04	ADHESIVE SHEET (PTT)	
54	1B		K29-9309-13	KNOB (VOLUME)	
55	1A		K29-9425-03	BUTTON KNOB (PTT)	
56	1A		K29-9426-03	BUTTON KNOB (MON/PF)	
57	1B		K29-9427-03	KNOB (SELECTOR)	
A	3B		N14-0848-05	CIRCULAR NUT	
B	3B		N14-0849-05	CIRCULAR NUT	

Ref. No.	Address	New parts	Parts No.	Description	Destination
C	2B		N30-2604-48	PAN HEAD MACHINE SCREW	
D	3A		N30-2606-48	PAN HEAD MACHINE SCREW	
E	2A,3A,2B		N83-2005-48	PAN HEAD TAPTITE SCREW	
61	2C,2E		N99-2046-05	SCREW SET ACCESSORY	
63	2A	*	R31-0670-15	VARIABLE RESISTOR	
65	2A		S60-0440-05	ROTARY SWITCH	
67	1B		T07-0369-15	SPEAKER	
68	2D		T90-1035-05	HELICAL ANTENNA	C6
69	2D,2F		T90-1039-25	WHIP ANTENNA	M,M2,C
69	2D		T90-1039-25	WHIP ANTENNA	X
69	2D		T90-1040-25	WHIP ANTENNA	X2
69	2D		T90-1041-25	WHIP ANTENNA	C2
71	1C		W08-0988-05	CHARGER (KSC-35)	X,X2
72	1D		W08-1069-05	AC ADAPTER (SWITCHING)	C,C2,C6
74	1C		W08-1074-05	CHARGER	C,C2,C6

<b>TX-RX UNIT (X57-758X-XX)</b>									
<b>0-20: M,X</b>		<b>0-21: M2,C</b>		<b>0-22: X2</b>		<b>0-23: C2</b>		<b>3-01: C6</b>	
D303			B30-2315-05	LED (RED)					
D304			B30-2314-05	LED (GREEN)					
C1			CK73HB1H332K	CHIP C	3300PF	K			
C2			CK73HB1C682K	CHIP C	6800PF	K			
C3			CK73GB1A105K	CHIP C	1.0UF	K			
C4			CK73HB1A104K	CHIP C	0.10UF	K			
C5			CK73HB1H471K	CHIP C	470PF	K		M,M2,C	
C5			CK73HB1H471K	CHIP C	470PF	K		X,C6,X2	
C5,6			CK73HB1H471K	CHIP C	470PF	K		C2	
C6			CK73HB1E103K	CHIP C	0.010UF	K		M,M2,C	
C6			CK73HB1E103K	CHIP C	0.010UF	K		X,C6,X2	
C7			CC73HCH1H100D	CHIP C	10PF	D			
C8-10			CC73HCH1H101J	CHIP C	100PF	J			
C11			CK73FB0J106K	CHIP C	10UF	K		M,M2,C	
C11			CK73FB0J106K	CHIP C	10UF	K		X,C6,X2	
C11			CK73FB1H471K	CHIP C	470PF	K		C2	
C12			CK73HB1H471K	CHIP C	470PF	K			
C13			CC73HCH1H100D	CHIP C	10PF	D			
C14			CK73HB1E103K	CHIP C	0.010UF	K		C2	
C14,15			CK73HB1E103K	CHIP C	0.010UF	K		M,M2,C	
C14,15			CK73HB1E103K	CHIP C	0.010UF	K		X,C6,X2	
C15			CK73HB1H471K	CHIP C	470PF	K		C2	
C16			CC73HCH1H470J	CHIP C	47PF	J			
C17			CK73HB1E103K	CHIP C	0.010UF	K			
C18			CC73HCH1H180J	CHIP C	18PF	J			
C21			CK73HB1E103K	CHIP C	0.010UF	K			
C22			CK73FB0J106K	CHIP C	10UF	K			
C23			CK73HB1E103K	CHIP C	0.010UF	K			
C25			CC73HCH1H300J	CHIP C	30PF	J			
C26			CC73HCH1H020B	CHIP C	2.0PF	B			
C27			CS77AA1VR33M	CHIP TNTL	0.33UF	35WV			
C29			CC73HCH1H270J	CHIP C	27PF	J			

## PARTS LIST / 零件表

TX-RX UNIT (X57-758X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C30			CC73HCH1H101J	CHIP C 100PF J	X2	C63			CC73HCH1H060B	CHIP C 6.0PF B	M,M2,C
C30			CK73HB1H471K	CHIP C 470PF K	M,M2,C	C63			CC73HCH1H060B	CHIP C 6.0PF B	C2,X
C30			CK73HB1H471K	CHIP C 470PF K	C2,X,C6	C64			CC73HCH1H040B	CHIP C 4.0PF B	X2
C31			CK73HB1E103K	CHIP C 0.010UF K		C64			CC73HCH1H050B	CHIP C 5.0PF B	M,M2,C
C32			CS77CA1C3R3M	CHIP TNTL 3.3UF 16WV		C64			CC73HCH1H050B	CHIP C 5.0PF B	X
C33			CK73HB1H471K	CHIP C 470PF K		C64			CC73HCH1H060B	CHIP C 6.0PF B	C6
C35			CS77CA1V0R1M	CHIP TNTL 0.1UF 35WV	M,M2,C	C64			CC73HCH1H3R5B	CHIP C 3.5PF B	C2
C35			CS77CA1V0R1M	CHIP TNTL 0.1UF 35WV	X	C65			CC73HCH1H020B	CHIP C 2.0PF B	C6
C35			C92-0863-05	CHIP TNTL 0.047UF 35WV	C2,C6,X2	C65			CC73HCH1H040B	CHIP C 4.0PF B	C2
C36			CK73HB1H332K	CHIP C 3300PF K		C65			CC73HCH1H060B	CHIP C 6.0PF B	M,M2,C
C38			CK73HB1H471K	CHIP C 470PF K	C2	C65			CC73HCH1H060B	CHIP C 6.0PF B	X,X2
C39			CK73HB1C682K	CHIP C 6800PF K		C66			CK73HB1H471K	CHIP C 470PF K	
C40			CC73HCH1H050B	CHIP C 5.0PF B		C67			CC73HCH1H040B	CHIP C 4.0PF B	C2,X2
C41			CC73HCH1H030B	CHIP C 3.0PF B		C67			CC73HCH1H050B	CHIP C 5.0PF B	M,M2,C
C42			CC73HCH1H050B	CHIP C 5.0PF B		C67			CC73HCH1H050B	CHIP C 5.0PF B	X,C6
C43			CC73HCH1H101J	CHIP C 100PF J	C2	C68			CK73HB1H471K	CHIP C 470PF K	M2,C,C2
C44,45			CK73GB1A105K	CHIP C 1.0UF K		C68			CK73HB1H471K	CHIP C 470PF K	C6,X2
C47			CC73HCH1H100C	CHIP C 10PF C		C68,69			CK73HB1H471K	CHIP C 470PF K	M,X
C50			CK73HB1H471K	CHIP C 470PF K		C70			CC73HCH1H0R5B	CHIP C 0.5PF B	M2,C,C2
C51			CC73HCH1H030B	CHIP C 3.0PF B	C2	C70			CC73HCH1H0R5B	CHIP C 0.5PF B	X2
C51			CC73HCH1H040B	CHIP C 4.0PF B	C6	C70,71			CC73HCH1H0R5B	CHIP C 0.5PF B	M,X,C6
C51			CC73HCH1H100D	CHIP C 10PF D	M,M2,C	C71			CC73HCH1H0R3B	CHIP C 0.3PF B	M2,C,C2
C51			CC73HCH1H100D	CHIP C 10PF D	X,X2	C71			CC73HCH1H0R3B	CHIP C 0.3PF B	X2
C52			CC73HCH1H090B	CHIP C 9.0PF B	M,M2,C	C72,73			CK73HB1A104K	CHIP C 0.10UF K	
C52			CC73HCH1H090B	CHIP C 9.0PF B	X	C74,75			CK73HB1H471K	CHIP C 470PF K	
C52			CC73HCH1H110J	CHIP C 11PF J	X2	C76			CS77CP0J100M	CHIP TNTL 10UF 6.3WV	
C52			CC73HCH1H150J	CHIP C 15PF J	C2,C6	C77			CK73HB1H471K	CHIP C 470PF K	
C53			CC73HCH1H080B	CHIP C 8.0PF B	X2	C78			CC73HCH1H300J	CHIP C 30PF J	C2
C53			CC73HCH1H090B	CHIP C 9.0PF B	C2	C78			CC73HCH1H330J	CHIP C 33PF J	M,M2,C
C53			CC73HCH1H100B	CHIP C 10PF B	C6	C78			CC73HCH1H330J	CHIP C 33PF J	X,C6,X2
C53			CC73HCH1H110J	CHIP C 11PF J	M,M2,C	C79,80			CK73HB1H471K	CHIP C 470PF K	
C53			CC73HCH1H110J	CHIP C 11PF J	X	C81			CC73HCH1H150J	CHIP C 15PF J	
C55			CC73HCH1H0R5B	CHIP C 0.5PF B	M,X	C83-85			CK73HB1H471K	CHIP C 470PF K	
C55			CC73HCH1H020B	CHIP C 2.0PF B	C2	C86			CC73HCH1H100B	CHIP C 10PF B	
C55			CC73HCH1H1R5B	CHIP C 1.5PF B	M2,C	C101,102			CK73HB1H471K	CHIP C 470PF K	
C56			CC73HCH1H050B	CHIP C 5.0PF B	C6	C103			CC73HCH1H120J	CHIP C 12PF J	C2,C6,X2
C56			CC73HCH1H060B	CHIP C 6.0PF B	X2	C103			CC73HCH1H300J	CHIP C 30PF J	M,M2,C
C56			CC73HCH1H080B	CHIP C 8.0PF B	C2	C103			CC73HCH1H300J	CHIP C 30PF J	X
C56			CC73HCH1H120J	CHIP C 12PF J	M,M2,C	C104			CC73HCH1H040B	CHIP C 4.0PF B	M,M2,C
C56			CC73HCH1H120J	CHIP C 12PF J	X	C104			CC73HCH1H040B	CHIP C 4.0PF B	X
C57			CC73HCH1H040B	CHIP C 4.0PF B	M,X	C104			CC73HCH1H160J	CHIP C 16PF J	C2
C57			CC73HCH1H050B	CHIP C 5.0PF B	M2,C	C106			CK73GB1A105K	CHIP C 1.0UF K	
C57			CC73HCH1H070B	CHIP C 7.0PF B	C6	C107			CK73HB1H471K	CHIP C 470PF K	
C57			CC73HCH1H090B	CHIP C 9.0PF B	X2	C108			CK73GB1A105K	CHIP C 1.0UF K	
C57			CC73HCH1H100B	CHIP C 10PF B	C2	C109			CC73HCH1H060B	CHIP C 6.0PF B	M,M2,C
C58,59			CC73HCH1H010B	CHIP C 1.0PF B	M,M2,C	C109			CC73HCH1H060B	CHIP C 6.0PF B	X,X2
C58,59			CC73HCH1H010B	CHIP C 1.0PF B	X,X2	C109			CC73HCH1H160J	CHIP C 16PF J	C6
C58,59			CC73HCH1H020B	CHIP C 2.0PF B	C6	C109			CC73HCH1H180J	CHIP C 18PF J	C2
C58,59			CC73HCH1H1R5B	CHIP C 1.5PF B	C2	C111			CK73GB1A105K	CHIP C 1.0UF K	
C60			CC73HCH1H020B	CHIP C 2.0PF B	M,M2,C	C112,113			CK73HB1H471K	CHIP C 470PF K	
C60			CC73HCH1H020B	CHIP C 2.0PF B	X	C114			CK73HB1A104K	CHIP C 0.10UF K	
C60			CC73HCH1H040B	CHIP C 4.0PF B	C2	C115			CC73HCH1H050B	CHIP C 5.0PF B	C2,X2
C60			CC73HCH1H050B	CHIP C 5.0PF B	C6	C115			CC73HCH1H060B	CHIP C 6.0PF B	M2,C
C60,61			CC73HCH1H030B	CHIP C 3.0PF B	X2	C115			CC73HCH1H070B	CHIP C 7.0PF B	C6
C61			CC73HCH1H030B	CHIP C 3.0PF B	M,M2,C	C115			CC73HCH1H110J	CHIP C 11PF J	M,X
C61			CC73HCH1H030B	CHIP C 3.0PF B	X	C117			CC73HCH1H020B	CHIP C 2.0PF B	X2
C61			CC73HCH1H070B	CHIP C 7.0PF B	C2	C117			CC73HCH1H110J	CHIP C 11PF J	M,M2,C
C61			CC73HCH1H2R5B	CHIP C 2.5PF B	C6	C117			CC73HCH1H110J	CHIP C 11PF J	X
C62			CK73HB1H471K	CHIP C 470PF K		C118			CC73HCH1H090B	CHIP C 9.0PF B	C2
C63			CC73HCH1H050B	CHIP C 5.0PF B	C6,X2	C118			CC73HCH1H220J	CHIP C 22PF J	C6

## PARTS LIST / 零件表

## TX-RX UNIT (X57-758X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C120			CK73HB1H471K	CHIP C 470PF K		C169			CC73GCH1H3R5B	CHIP C 3.5PF B	C6
C122			CK73HB0J105K	CHIP C 1.0UF K	C2,X2	C170			CC73GCH1H101J	CHIP C 100PF J	
C123			CC73HCH1H0R5B	CHIP C 0.5PF B	C2	C172			CC73GCH1H010B	CHIP C 1.0PF B	C2
C124			CK73HB1H471K	CHIP C 470PF K		C172			CC73GCH1H030B	CHIP C 3.0PF B	M,X,C6
C125			CC73HCH1H070B	CHIP C 7.0PF B	C6	C172			CC73GCH1H050B	CHIP C 5.0PF B	M2,C
C125			CC73HCH1H100B	CHIP C 10PF B	M,M2,C	C172			CC73GCH1H060B	CHIP C 6.0PF B	X2
C125			CC73HCH1H100B	CHIP C 10PF B	X,X2	C173			CC73GCH1H0R5B	CHIP C 0.5PF B	M,M2,C
C125			CC73HCH1H150J	CHIP C 15PF J	C2	C173			CC73GCH1H0R5B	CHIP C 0.5PF B	C2,X
C126			CC73HCH1H060B	CHIP C 6.0PF B	X2	C174			CC73GCH1H050B	CHIP C 5.0PF B	M,X
C126			CC73HCH1H110J	CHIP C 11PF J	M,M2,C	C174			CC73GCH1H060B	CHIP C 6.0PF B	M2,C
C126			CC73HCH1H110J	CHIP C 11PF J	X	C174			CC73GCH1H100C	CHIP C 10PF C	C2
C127			CC73HCH1H160J	CHIP C 16PF J	M,M2,C	C174			CC73GCH1H110J	CHIP C 11PF J	X2
C127			CC73HCH1H160J	CHIP C 16PF J	X	C174			CC73GCH1H130J	CHIP C 13PF J	C6
C127			CC73HCH1H180J	CHIP C 18PF J	X2	C175			CC73GCH1H020B	CHIP C 2.0PF B	M,M2,C
C127			CC73HCH1H470J	CHIP C 47PF J	C2	C175			CC73GCH1H020B	CHIP C 2.0PF B	X
C127			CC73HCH1H820J	CHIP C 82PF J	C6	C176			CC73GCH1H050B	CHIP C 5.0PF B	M,X
C128,129			CK73HB1H471K	CHIP C 470PF K		C176			CC73GCH1H060B	CHIP C 6.0PF B	M2,C
C130			CK73GB1A105K	CHIP C 1.0UF K		C176			CC73GCH1H070B	CHIP C 7.0PF B	X2
C131			CK73HB1E103K	CHIP C 0.010UF K		C176			CC73GCH1H100C	CHIP C 10PF C	C2
C132			CC73HCH1H680J	CHIP C 68PF J	X2	C176			CC73GCH1H160J	CHIP C 16PF J	C6
C133			CK73GB1A105K	CHIP C 1.0UF K		C177			CC73GCH1H0R3B	CHIP C 0.3PF B	C2
C135,136			CK73HB1H471K	CHIP C 470PF K		C177			CC73GCH1H0R5B	CHIP C 0.5PF B	X2
C137			CC73HCH1H101J	CHIP C 100PF J		C177			CC73GCH1H020B	CHIP C 2.0PF B	M,X
C140			CK73HB1H471K	CHIP C 470PF K		C177			CC73GCH1H2R5B	CHIP C 2.5PF B	M2,C
C141			CK73HB1A104K	CHIP C 0.10UF K		C178			CC73GCH1H020B	CHIP C 2.0PF B	X2
C142			CC73GCH1H430J	CHIP C 43PF J	M,M2,C	C178			CC73GCH1H030B	CHIP C 3.0PF B	M,X
C142			CC73GCH1H430J	CHIP C 43PF J	X	C178			CC73GCH1H040B	CHIP C 4.0PF B	M2,C
C142			CC73GCH1H470J	CHIP C 47PF J	C2	C178			CC73GCH1H060B	CHIP C 6.0PF B	C2
C142			CC73GCH1H560J	CHIP C 56PF J	C6	C178			CC73GCH1H130J	CHIP C 13PF J	C6
C143			CC73GCH1H300J	CHIP C 30PF J	X2	C201			CK73GB1C224K	CHIP C 0.22UF K	
C144			CK73HB1H471K	CHIP C 470PF K		C202			CK73FB0J106K	CHIP C 10UF K	
C145			CC73GCH1H010B	CHIP C 1.0PF B	X2	C203			CK73HB1E103K	CHIP C 0.010UF K	
C145			CC73GCH1H360J	CHIP C 36PF J	C2	C204			CK73HB1H102K	CHIP C 1000PF K	
C146			CC73GCH1H120J	CHIP C 12PF J	M,M2,C	C205			CK73HB1H182K	CHIP C 1800PF K	
C146			CC73GCH1H120J	CHIP C 12PF J	X	C206,207			CK73HB1H561K	CHIP C 560PF K	M,C2,X
C146			CC73GCH1H470J	CHIP C 47PF J	C6	C206,207			CK73HB1H561K	CHIP C 560PF K	C6,X2
C154			CK73HB1H471K	CHIP C 470PF K		C206,207			CK73HB1H681K	CHIP C 680PF K	M2,C
C155			CC73GCH1H0R3B	CHIP C 0.3PF B	C2	C208			CK73HB1A104K	CHIP C 0.10UF K	
C161			CC73GCH1H010B	CHIP C 1.0PF B	M,M2,C	C209			CC73HCH1H680J	CHIP C 68PF J	
C161			CC73GCH1H010B	CHIP C 1.0PF B	X	C210-213			CK73HB1A104K	CHIP C 0.10UF K	
C161			CC73GCH1H1R5B	CHIP C 1.5PF B	C2	C214			CC73HCH1H020B	CHIP C 2.0PF B	
C162			CC73GCH1H010B	CHIP C 1.0PF B	X2	C215,216			CK73HB1E103K	CHIP C 0.010UF K	
C162			CC73GCH1H020B	CHIP C 2.0PF B	M,M2,C	C219			CC73HCH1H010B	CHIP C 1.0PF B	M,M2,C
C162			CC73GCH1H020B	CHIP C 2.0PF B	X	C219			CC73HCH1H010B	CHIP C 1.0PF B	C2,X,C6
C162			CC73GCH1H110J	CHIP C 11PF J	C6	C220			CC73HCH1H180J	CHIP C 18PF J	
C164			CC73GCH1H0R3B	CHIP C 0.3PF B	C6	C222			CK73HB1H471K	CHIP C 470PF K	
C164			CC73GCH1H030B	CHIP C 3.0PF B	C2	C223			CK73HB1E103K	CHIP C 0.010UF K	
C166			CC73GCH1H050B	CHIP C 5.0PF B	X2	C224			CK73HB1A104K	CHIP C 0.10UF K	
C166			CC73GCH1H060B	CHIP C 6.0PF B	M,M2,C	C225			CK73HB1E103K	CHIP C 0.010UF K	
C166			CC73GCH1H060B	CHIP C 6.0PF B	X	C226			CK73HB1H471K	CHIP C 470PF K	
C166			CC73GCH1H070B	CHIP C 7.0PF B	C2	C227			CC73HCH1H180J	CHIP C 18PF J	
C166			CC73GCH1H220J	CHIP C 22PF J	C6	C228			CK73HB1H471K	CHIP C 470PF K	
C167			CK73HB1H471K	CHIP C 470PF K		C230			CK73HB1E103K	CHIP C 0.010UF K	
C168			CC73GCH1H040B	CHIP C 4.0PF B	M,M2,C	C231			CK73HB1H102K	CHIP C 1000PF K	C2
C168			CC73GCH1H040B	CHIP C 4.0PF B	C2,X	C231			CK73HB1H471K	CHIP C 470PF K	M,M2,C
C168			CC73GCH1H090B	CHIP C 9.0PF B	C6	C231			CK73HB1H471K	CHIP C 470PF K	X,C6,X2
C168			CC73GCH1H2R5B	CHIP C 2.5PF B	X2	C232			CC73HCH1H030B	CHIP C 3.0PF B	C6
C169			CC73GCH1H040B	CHIP C 4.0PF B	X2	C232			CC73HCH1H040B	CHIP C 4.0PF B	X2
C169			CC73GCH1H2R5B	CHIP C 2.5PF B	M,M2,C	C232			CC73HCH1H3R5B	CHIP C 3.5PF B	M,M2,C
C169			CC73GCH1H2R5B	CHIP C 2.5PF B	C2,X	C232			CC73HCH1H3R5B	CHIP C 3.5PF B	C2,X

## PARTS LIST / 零件表

TX-RX UNIT (X57-758X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
C233			CC73HCH1H060B	CHIP C 6.0PF B		C259			CC73HCH1H020B	CHIP C 2.0PF B	X,C6
C234			CK73HB1H471K	CHIP C 470PF K		C259			CC73HCH1H1R5B	CHIP C 1.5PF B	C2,X2
C235			CC73HCH1HR75B	CHIP C 0.75PF B	C2	C260			CK73HB1H471K	CHIP C 470PF K	
C236			CC73GCH1H040B	CHIP C 4.0PF B	M,X	C261			CC73HCH1H020B	CHIP C 2.0PF B	C2
C236			CC73GCH1H050B	CHIP C 5.0PF B	C6	C261			CC73HCH1H030B	CHIP C 3.0PF B	M,X
C236			CC73GCH1H070B	CHIP C 7.0PF B	C2	C261			CC73HCH1H1R5B	CHIP C 1.5PF B	X2
C236			CC73GCH1H2R5B	CHIP C 2.5PF B	X2	C261			CC73HCH1H2R5B	CHIP C 2.5PF B	M2,C,C6
C236			CC73GCH1H4R5B	CHIP C 4.5PF B	M2,C	C262			CC73HCH1H220J	CHIP C 22PF J	M,M2,C
C237			CC73HCH1H220J	CHIP C 22PF J	M,M2,C	C262			CC73HCH1H220J	CHIP C 22PF J	C2,X
C237			CC73HCH1H220J	CHIP C 22PF J	X,C6	C262			CC73HCH1H270J	CHIP C 27PF J	C6
C237			CC73HCH1H270J	CHIP C 27PF J	C2	C262			CC73HCH1H300J	CHIP C 30PF J	X2
C237			CC73HCH1H300J	CHIP C 30PF J	X2	C263			CC73HCH1H010B	CHIP C 1.0PF B	M,M2,C
C238			CC73HCH1H010B	CHIP C 1.0PF B		C263			CC73HCH1H010B	CHIP C 1.0PF B	X
C239			CK73HB1H471K	CHIP C 470PF K		C263			CC73HCH1H020B	CHIP C 2.0PF B	X2
C240			CC73HCH1H020B	CHIP C 2.0PF B	M,M2,C	C263			CC73HCH1H060B	CHIP C 6.0PF B	C2
C240			CC73HCH1H020B	CHIP C 2.0PF B	X,C6	C263,264			CC73HCH1H030B	CHIP C 3.0PF B	C6
C240			CC73HCH1H040B	CHIP C 4.0PF B	C2	C264			CC73HCH1H020B	CHIP C 2.0PF B	C2
C240			CC73HCH1H1R5B	CHIP C 1.5PF B	X2	C264			CC73HCH1H220J	CHIP C 22PF J	X2
C241			CK73FBJ106K	CHIP C 10UF K		C264			CC73HCH1H3R5B	CHIP C 3.5PF B	M,X
C242			CC73HCH1H040B	CHIP C 4.0PF B	X2	C264,265			CC73HCH1H3R5B	CHIP C 3.5PF B	M2,C
C242			CC73HCH1H050B	CHIP C 5.0PF B	C6	C265			CC73HCH1H030B	CHIP C 3.0PF B	M,X
C242			CC73HCH1H060B	CHIP C 6.0PF B	M,M2,C	C265			CC73HCH1H040B	CHIP C 4.0PF B	C6
C242			CC73HCH1H060B	CHIP C 6.0PF B	X	C265			CC73HCH1H050B	CHIP C 5.0PF B	C2
C242			CC73HCH1H080B	CHIP C 8.0PF B	C2	C265			CC73HCH1H080B	CHIP C 8.0PF B	X2
C243			CK73HB1H471K	CHIP C 470PF K		C266			CC73HCH1H050B	CHIP C 5.0PF B	M,M2,C
C244			CC73HCH1H220J	CHIP C 22PF J	M,M2,C	C266			CC73HCH1H050B	CHIP C 5.0PF B	X
C244			CC73HCH1H220J	CHIP C 22PF J	X	C266			CC73HCH1H060B	CHIP C 6.0PF B	C6,X2
C244			CC73HCH1H270J	CHIP C 27PF J	C2,C6	C266			CC73HCH1H070B	CHIP C 7.0PF B	C2
C244			CC73HCH1H300J	CHIP C 30PF J	X2	C290			CC73HCH1H020B	CHIP C 2.0PF B	
C245			CC73HCH1HR75B	CHIP C 0.75PF B	X2	C291			CC73HCH1H060B	CHIP C 6.0PF B	
C245			CC73HCH1H010B	CHIP C 1.0PF B	M,M2,C	C303			CC73HCH1H101J	CHIP C 100PF J	
C245			CC73HCH1H010B	CHIP C 1.0PF B	C2,X	C304			CK73HB1A104K	CHIP C 0.10UF K	
C245			CC73HCH1H020B	CHIP C 2.0PF B	C6	C305			CC73HCH1H101J	CHIP C 100PF J	
C246			CK73HB1H471K	CHIP C 470PF K		C306			CK73GB1A105K	CHIP C 1.0UF K	
C247			CC73HCH1H020B	CHIP C 2.0PF B	M,M2,C	C307			CC73HCH1H101J	CHIP C 100PF J	
C247			CC73HCH1H020B	CHIP C 2.0PF B	X,X2	C310			CK73GB1A105K	CHIP C 1.0UF K	
C247			CC73HCH1H040B	CHIP C 4.0PF B	C2	C311			CC73HCH1H101J	CHIP C 100PF J	
C247			CC73HCH1H2R5B	CHIP C 2.5PF B	C6	C312			CK73HB1H471K	CHIP C 470PF K	
C248			CC73HCH1H220J	CHIP C 22PF J	M,M2,C	C313			CC73HCH1H101J	CHIP C 100PF J	
C248			CC73HCH1H220J	CHIP C 22PF J	X	C315			CC73HCH1H101J	CHIP C 100PF J	
C248			CC73HCH1H270J	CHIP C 27PF J	C2,C6	C316			CK73HB1H471K	CHIP C 470PF K	
C248			CC73HCH1H300J	CHIP C 30PF J	X2	C318			CK73HB1E103K	CHIP C 0.010UF K	
C249			CC73GCH1H030B	CHIP C 3.0PF B	X2	C319			CK73HB1H102K	CHIP C 1000PF K	
C249			CC73GCH1H040B	CHIP C 4.0PF B	M,X	C320			CC73HCH1H101J	CHIP C 100PF J	
C249			CC73GCH1H050B	CHIP C 5.0PF B	C6	C321			CK73GB1A105K	CHIP C 1.0UF K	
C249			CC73GCH1H080B	CHIP C 8.0PF B	C2	C322			CC73HCH1H101J	CHIP C 100PF J	
C249			CC73GCH1H4R5B	CHIP C 4.5PF B	M2,C	C323			CK73GB1A105K	CHIP C 1.0UF K	
C250			CK73HB1H471K	CHIP C 470PF K		C325			CC73HCH1H101J	CHIP C 100PF J	
C252-254			CK73HB1H471K	CHIP C 470PF K		C327			CK73HB1H471K	CHIP C 470PF K	
C256			CK73HB1H471K	CHIP C 470PF K		C331			CK73HB1A104K	CHIP C 0.10UF K	
C257			CC73HCH1H030B	CHIP C 3.0PF B	C6	C332			CC73HCH1H050B	CHIP C 5.0PF B	
C257			CC73HCH1H080B	CHIP C 8.0PF B	C2	C334			CK73HB1E103K	CHIP C 0.010UF K	
C257			CC73HCH1H2R5B	CHIP C 2.5PF B	X2	C335			CK73FBJ106K	CHIP C 10UF K	
C257			CC73HCH1H3R5B	CHIP C 3.5PF B	M,M2,C	C337			CC73HCH1H050B	CHIP C 5.0PF B	
C257			CC73HCH1H3R5B	CHIP C 3.5PF B	X	C339			CK73GB1A105K	CHIP C 1.0UF K	
C258			CC73HCH1H220J	CHIP C 22PF J	M,M2,C	C341			CK73HB1H471K	CHIP C 470PF K	
C258			CC73HCH1H220J	CHIP C 22PF J	C2,X	C353-355			CK73HB1E103K	CHIP C 0.010UF K	
C258			CC73HCH1H270J	CHIP C 27PF J	C6	C356			CK73HB1H102K	CHIP C 1000PF K	
C258			CC73HCH1H300J	CHIP C 30PF J	X2	C358			CK73GB1C224K	CHIP C 0.22UF K	
C259			CC73HCH1H020B	CHIP C 2.0PF B	M,M2,C	C359			CK73FBJ106K	CHIP C 10UF K	

## PARTS LIST / 零件表

## TX-RX UNIT (X57-758X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
C360			CK73HB1A104K	CHIP C 0.10UF K		L12			L40-1875-71	SMALL FIXED INDUCTOR (18NH)	C2,X,X2
C361			CK73GB1A105K	CHIP C 1.0UF K		L13			L40-3375-71	SMALL FIXED INDUCTOR (33NH)	C6
C362			CK73HB1H471K	CHIP C 470PF K		L13,14			L40-1885-92	SMALL FIXED INDUCTOR (180NH)	
C363			CC73HCH1H820J	CHIP C 82PF J		L15			L40-2278-67	SMALL FIXED INDUCTOR (22NH)	X2
C364			CC73HCH1H120J	CHIP C 12PF J		L15			L40-2778-67	SMALL FIXED INDUCTOR (27NH)	M,M2,C
C365			CC73HCH1H820J	CHIP C 82PF J		L15			L40-2778-67	SMALL FIXED INDUCTOR (27NH)	C2,X
C366			CK73HB1A104K	CHIP C 0.10UF K		L15			L40-3978-67	SMALL FIXED INDUCTOR (39NH)	C6
C367			CK73GB1A105K	CHIP C 1.0UF K		L16			L40-1878-67	SMALL FIXED INDUCTOR (18NH)	M,M2,C
C368			CK73HB1H271K	CHIP C 270PF K		L16			L40-1878-67	SMALL FIXED INDUCTOR (18NH)	X,X2
C369,370			CK73HB1A104K	CHIP C 0.10UF K		L16			L40-2278-67	SMALL FIXED INDUCTOR (22NH)	C2
C371			CK73FB0J106K	CHIP C 10UF K		L16			L40-3378-67	SMALL FIXED INDUCTOR (33NH)	C6
C372			CK73HB1H471K	CHIP C 470PF K		L17,18			L41-2785-45	SMALL FIXED INDUCTOR (270NH)	
C373			CC73HCH1H121J	CHIP C 120PF J		L19,20			L40-1885-92	SMALL FIXED INDUCTOR (180NH)	
C374			CK73HB1H102K	CHIP C 1000PF K		L21			L92-0138-05	CHIP FERRITE	
C375,376			CK73HB1H471K	CHIP C 470PF K		L22			L40-2275-71	SMALL FIXED INDUCTOR (22NH)	C6
C377			CK73HB1A683K	CHIP C 0.068UF K		L22,23			L40-2275-71	SMALL FIXED INDUCTOR (22NH)	M,M2,C
C378			CC73HCH1H820J	CHIP C 82PF J		L22,23			L40-2275-71	SMALL FIXED INDUCTOR (22NH)	C2,X,X2
C379,380			CK73GB1A105K	CHIP C 1.0UF K		L23			L40-2775-71	SMALL FIXED INDUCTOR (27NH)	C6
C381			CK73HB1H391K	CHIP C 390PF K		L101			L40-1875-71	SMALL FIXED INDUCTOR (18NH)	M,M2,C
C382			CK73HB1C153K	CHIP C 0.015UF K		L101			L40-1875-71	SMALL FIXED INDUCTOR (18NH)	C2,X,X2
C383-385			CK73HB1A104K	CHIP C 0.10UF K		L101			L40-2275-71	SMALL FIXED INDUCTOR (22NH)	C6
C386			CK73HB1E103K	CHIP C 0.010UF K		L102			L40-2775-71	SMALL FIXED INDUCTOR (27NH)	C2
C388,389			CK73HB1H471K	CHIP C 470PF K		L102			L40-3357-71	SMALL FIXED INDUCTOR (33NH)	M2,C
C390,391			CK73GB1A105K	CHIP C 1.0UF K		L102			L40-3975-71	SMALL FIXED INDUCTOR (39NH)	M,X,X2
C392			CK73HB1A473K	CHIP C 0.047UF K		L102			L40-5675-71	SMALL FIXED INDUCTOR (56NH)	C6
C393			CK73FB0J106K	CHIP C 10UF K		L103			L40-1575-71	SMALL FIXED INDUCTOR (15NH)	M,M2,C
C395			CC73HCH1H221J	CHIP C 220PF J		L103			L40-1575-71	SMALL FIXED INDUCTOR (15NH)	X
C396			CK73HB1A104K	CHIP C 0.10UF K		L103			L40-1875-71	SMALL FIXED INDUCTOR (18NH)	C2
C397			CK73GB1C474K	CHIP C 0.47UF K		L103			L40-2275-71	SMALL FIXED INDUCTOR (22NH)	X2
C399			CC73HCH1H101J	CHIP C 100PF J		L103,104			L40-1875-71	SMALL FIXED INDUCTOR (18NH)	C6
C400			CK73FB0J106K	CHIP C 10UF K		L104			L40-3368-71	SMALL FIXED INDUCTOR (3.3NH)	X2
C402			CK73HB1A104K	CHIP C 0.10UF K		L104			L40-8265-71	SMALL FIXED INDUCTOR (8.2NH)	M,M2,C
C403			CK73HB1A473J	CHIP C 0.047UF J		L104			L40-8265-71	SMALL FIXED INDUCTOR (8.2NH)	C2,X
C404			CS77CC0J101M	CHIP TNL 100UF 6.3WV		L105			L41-2278-45	SMALL FIXED INDUCTOR (22NH)	M,M2,C
C405			CC73HCH1H221J	CHIP C 220PF J		L105			L41-2278-45	SMALL FIXED INDUCTOR (22NH)	X,X2
C408			CK73HB1H471K	CHIP C 470PF K	C6,X2	L105			L41-4765-45	SMALL FIXED INDUCTOR (4.7NH)	C2
C408,409			CK73HB1H471K	CHIP C 470PF K	M,M2,C	L105			L41-6875-45	SMALL FIXED INDUCTOR (68NH)	C6
C408,409			CK73HB1H471K	CHIP C 470PF K	C2,X	L106			L92-0472-05	CHIP FERRITE	
C411			CK73HB1H471K	CHIP C 470PF K	M,M2,C	L107			L40-2263-92	SMALL FIXED INDUCTOR (2.2NH)	C2
C411			CK73HB1H471K	CHIP C 470PF K	X,C6	L107			L40-2763-92	SMALL FIXED INDUCTOR (2.7NH)	M,M2,C
C413-415			CK73HB1H471K	CHIP C 470PF K		L107			L40-2763-92	SMALL FIXED INDUCTOR (2.7NH)	X
TC1,2			C05-0384-05	CERAMIC TRIMMER CAP (10PF)		L107			L40-3375-92	SMALL FIXED INDUCTOR (33NH)	C6
CN301			E40-6573-05	FLAT CABLE CONNECTOR		L107			L40-8265-92	SMALL FIXED INDUCTOR (8.2NH)	X2
J301			E11-0703-05	PHONE JACK (2.5/3.5)		L108			L34-4603-15	AIR-CORE COIL	M,M2,C
F301			F53-0324-05	FUSE		L108			L34-4603-15	AIR-CORE COIL	C2,X,C6
101	2A		J30-1282-14	SPACER		L108			L34-4604-15	AIR-CORE COIL	X2
CD201			L79-1866-05	TUNING COIL		L109			L92-0472-05	CHIP FERRITE	
CF201	2A		L72-0973-05	CERAMIC FILTER		L111			L41-2785-45	SMALL FIXED INDUCTOR (270NH)	
L1			L92-0138-05	CHIP FERRITE		L112			L34-4572-05	AIR-CORE COIL	
L2			L40-4791-86	SMALL FIXED INDUCTOR (4.7UH)		L113-115			L34-4564-05	AIR-CORE COIL	
L4			L40-5681-86	SMALL FIXED INDUCTOR (0.56UH)		L116			L41-1092-44	SMALL FIXED INDUCTOR (1UH)	
L6			L40-5681-86	SMALL FIXED INDUCTOR (0.56UH)		L201			L40-1091-86	SMALL FIXED INDUCTOR (1.0UH)	
L7			L92-0138-05	CHIP FERRITE		L202			L92-0138-05	CHIP FERRITE	
L8			L40-1875-71	SMALL FIXED INDUCTOR (18NH)		L203			L41-5685-39	SMALL FIXED INDUCTOR (0.56UH)	
L9			L92-0470-05	CHIP FERRITE		L204			L40-1885-92	SMALL FIXED INDUCTOR (180NH)	
L10,11			L40-1885-92	SMALL FIXED INDUCTOR (180NH)		L205			L40-2775-71	SMALL FIXED INDUCTOR (27NH)	M,M2,C
L12			L40-1875-71	SMALL FIXED INDUCTOR (18NH)	M,M2,C	L205			L40-2775-71	SMALL FIXED INDUCTOR (27NH)	X,X2
						L205			L40-3375-71	SMALL FIXED INDUCTOR (33NH)	C2
						L205			L40-4775-71	SMALL FIXED INDUCTOR (47NH)	C6
						L206,207			L41-1278-14	SMALL FIXED INDUCTOR (12NH)	C6

## PARTS LIST / 零件表

TX-RX UNIT (X57-758X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
L206,207			L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)	M,M2,C	R20			RK73HB1J000J	CHIP R 0.0 J 1/16W	
L206,207			L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)	C2,X,X2	R21,22			RK73HB1J103J	CHIP R 10K J 1/16W	
L208			L92-0138-05	CHIP FERRITE		R23			RK73HB1J470J	CHIP R 47 J 1/16W	C2
L209			L41-1278-14	SMALL FIXED INDUCTOR (12NH)	C6	R26			RK73HB1J333J	CHIP R 33K J 1/16W	
L209			L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)	M,M2,C	R27			RK73HB1J474J	CHIP R 470K J 1/16W	C6
L209			L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)	C2,X,X2	R27			RK73HB1J684J	CHIP R 680K J 1/16W	M,M2,C
L210			L41-2785-45	SMALL FIXED INDUCTOR (270NH)		R27			RK73HB1J684J	CHIP R 680K J 1/16W	C2,X,X2
L212			L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)	X2	R28			RK73HB1J102J	CHIP R 1.0K J 1/16W	
L212,213			L41-1278-14	SMALL FIXED INDUCTOR (12NH)	C6	R29			RK73HB1J154J	CHIP R 150K J 1/16W	
L212,213			L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)	M,M2,C	R30			RK73HB1J273J	CHIP R 27K J 1/16W	M,M2,C
L212,213			L41-8268-14	SMALL FIXED INDUCTOR (8.2NH)	C2,X	R30			RK73HB1J273J	CHIP R 27K J 1/16W	C2,X,X2
L213			L41-3963-14	SMALL FIXED INDUCTOR (3.9NH)	X2	R30			RK73HB1J474J	CHIP R 470K J 1/16W	C6
L214			L41-4775-45	SMALL FIXED INDUCTOR (47NH)	M,M2,C	R31			RK73HB1J274J	CHIP R 270K J 1/16W	
L214			L41-4775-45	SMALL FIXED INDUCTOR (47NH)	C2,X	R32			RK73HB1J334J	CHIP R 330K J 1/16W	C6
L214			L41-6875-45	SMALL FIXED INDUCTOR (68NH)	C6	R32			RK73HB1J394J	CHIP R 390K J 1/16W	C2
L215			L41-3963-14	SMALL FIXED INDUCTOR (3.9NH)	X2	R32			RK73HB1J474J	CHIP R 470K J 1/16W	M,M2,C
L250			L40-1875-71	SMALL FIXED INDUCTOR (18NH)		R32			RK73HB1J474J	CHIP R 470K J 1/16W	X,X2
L301			L92-0472-05	CHIP FERRITE		R33			RK73HB1J100J	CHIP R 10 J 1/16W	C2
L302-304			L92-0138-05	CHIP FERRITE		R33			RK73HB1J101J	CHIP R 100 J 1/16W	C6,X2
L305			L92-0140-05	CHIP FERRITE		R33-36			RK73HB1J101J	CHIP R 100 J 1/16W	M,X
X1			L77-3042-05	TCXO (12.8MHZ)		R33,34			RK73HB1J101J	CHIP R 100 J 1/16W	M2,C
X301			L78-1433-05	RESONATOR (14.746MHZ)		R34			RK73HB1J181J	CHIP R 180 J 1/16W	C6,X2
XF201			L71-0619-05	MCF (38.85MHZ/6.5KH)		R34-36			RK73HB1J101J	CHIP R 100 J 1/16W	C2
CP1			RK75HA1J101J	CHIP-COM 100 J 1/16W		R35			RK73HB1J151J	CHIP R 150 J 1/16W	C6
CP201			RK75HA1J104J	CHIP-COM 100K J 1/16W		R35			RK73HB1J820J	CHIP R 82 J 1/16W	M2,C,X2
CP202			RK75HA1J474J	CHIP-COM 470K J 1/16W		R36			RK73HB1J101J	CHIP R 100 J 1/16W	M2,C,C6
CP203			RK75HA1J104J	CHIP-COM 100K J 1/16W		R36			RK73HB1J101J	CHIP R 100 J 1/16W	X2
CP204			RK75HA1J474J	CHIP-COM 470K J 1/16W		R37			RK73HB1J472J	CHIP R 4.7K J 1/16W	
CP301,302			RK75HA1J473J	CHIP-COM 47K J 1/16W		R38			RK73HB1J154J	CHIP R 150K J 1/16W	
CP303,304			RK75HA1J102J	CHIP-COM 1.0K J 1/16W		R39			RK73HB1J101J	CHIP R 100 J 1/16W	
R1			RK73HB1J223J	CHIP R 22K J 1/16W		R40			RK73HB1J472J	CHIP R 4.7K J 1/16W	M,X,X2
R2			RK73HB1J103J	CHIP R 10K J 1/16W		R40			RK73HB1J472J	CHIP R 4.7K J 1/16W	C6
R3			RK73HB1J154J	CHIP R 150K J 1/16W	C2	R41			RK73HB1J562J	CHIP R 5.6K J 1/16W	
R3			RK73HB1J184J	CHIP R 180K J 1/16W	M,M2,C	R42			RK73HB1J220J	CHIP R 22 J 1/16W	
R3			RK73HB1J184J	CHIP R 180K J 1/16W	X,X2	R43			RK73HB1J471J	CHIP R 470 J 1/16W	
R3			RK73HB1J823J	CHIP R 82K J 1/16W	C6	R45			RK73HB1J562J	CHIP R 5.6K J 1/16W	
R4			RK73HB1J563J	CHIP R 56K J 1/16W		R101			RK73HB1J332J	CHIP R 3.3K J 1/16W	
R5			RK73HB1J104J	CHIP R 100K J 1/16W		R102			RK73HB1J273J	CHIP R 27K J 1/16W	
R7			RK73HB1J000J	CHIP R 0.0 J 1/16W		R103			RK73HB1J331J	CHIP R 330 J 1/16W	M,M2,C
R8			RK73HB1J101J	CHIP R 100 J 1/16W		R103			RK73HB1J331J	CHIP R 330 J 1/16W	C2,X,X2
R9			RK73HB1J222J	CHIP R 2.2K J 1/16W	M2,C,X2	R104			RK73HB1J390J	CHIP R 39 J 1/16W	C2
R9			RK73HB1J821J	CHIP R 820 J 1/16W	M,C2,X	R104			RK73HB1J470J	CHIP R 47 J 1/16W	M,X,X2
R9			RK73HB1J821J	CHIP R 820 J 1/16W	C6	R104			RK73HB1J560J	CHIP R 56 J 1/16W	M2,C
R10			RK73HB1J000J	CHIP R 0.0 J 1/16W		R104			RK73HB1J680J	CHIP R 68 J 1/16W	C6
R11			RK73HB1J274J	CHIP R 270K J 1/16W	M,M2,C	R105			RK73HB1J183J	CHIP R 18K J 1/16W	C2,C6
R11			RK73HB1J274J	CHIP R 270K J 1/16W	C2,X,C6	R105			RK73HB1J273J	CHIP R 27K J 1/16W	M,X,X2
R11			RK73HB1J334J	CHIP R 330K J 1/16W	X2	R105			RK73HB1J333J	CHIP R 33K J 1/16W	M2,C
R12			RK73HB1J221J	CHIP R 220 J 1/16W		R106			RK73HB1J331J	CHIP R 330 J 1/16W	
R13			RK73HB1J101J	CHIP R 100 J 1/16W		R107			RK73HB1J390J	CHIP R 39 J 1/16W	C2
R14			RK73HB1J100J	CHIP R 10 J 1/16W		R107			RK73HB1J560J	CHIP R 56 J 1/16W	M,X,X2
R15			RK73HB1J561J	CHIP R 560 J 1/16W		R107			RK73HB1J680J	CHIP R 68 J 1/16W	M2,C
R16			RK73HB1J000J	CHIP R 0.0 J 1/16W	M,X	R107			RK73HB1J820J	CHIP R 82 J 1/16W	C6
R16			RK73HB1J181J	CHIP R 180 J 1/16W	M2,C,C2	R109			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R16			RK73HB1J181J	CHIP R 180 J 1/16W	C6,X2	R111			RK73HB1J393J	CHIP R 39K J 1/16W	M,M2,C
R17			RK73HB1J122J	CHIP R 1.2K J 1/16W	M2,C,C2	R111			RK73HB1J393J	CHIP R 39K J 1/16W	X,X2
R17			RK73HB1J122J	CHIP R 1.2K J 1/16W	C6,X2	R111			RK73HB1J473J	CHIP R 47K J 1/16W	C2,C6
R17			RK73HB1J182J	CHIP R 1.8K J 1/16W	M,X	R112			RK73HB1J220J	CHIP R 22 J 1/16W	
R18			RK73HB1J681J	CHIP R 680 J 1/16W		R113			RK73HB1J104J	CHIP R 100K J 1/16W	M,M2,C
R19			RK73HB1J223J	CHIP R 22K J 1/16W		R113			RK73HB1J104J	CHIP R 100K J 1/16W	C2,X,X2
						R113			RK73HB1J154J	CHIP R 150K J 1/16W	C6

## PARTS LIST / 零件表

## TX-RX UNIT (X57-758X-XX)

Ref. No.	Address	New parts	Parts No.	Description	Destination	Ref. No.	Address	New parts	Parts No.	Description	Destination
R114			RK73HB1J822J	CHIP R 8.2K J 1/16W		R218			RK73HB1J563J	CHIP R 56K J 1/16W	C6
R116			RK73HB1J331J	CHIP R 330 J 1/16W	M,M2,C	R218			RK73HB1J823J	CHIP R 82K J 1/16W	C2
R116			RK73HB1J331J	CHIP R 330 J 1/16W	X,X2	R218,219			RK73HB1J563J	CHIP R 56K J 1/16W	M,M2,C
R118			RK73HB1J000J	CHIP R 0.0 J 1/16W	X2	R218,219			RK73HB1J563J	CHIP R 56K J 1/16W	X,X2
R118			RK73HB1J331J	CHIP R 330 J 1/16W	C2	R219			RK73HB1J563J	CHIP R 56K J 1/16W	C2
R118			RK73HB1J471J	CHIP R 470 J 1/16W	C6	R219			RK73HB1J683J	CHIP R 68K J 1/16W	C6
R119			RK73GB2A000J	CHIP R 0.0 J 1/10W		R220			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R120			RK73EB2ER39K	CHIP R 0.39 K 1/4W		R221			RK73HB1J105J	CHIP R 1.0M J 1/16W	
R121			RK73HB1J103J	CHIP R 10K J 1/16W	M,X	R222			RK73HB1J150J	CHIP R 15 J 1/16W	C2
R121			RK73HB1J123J	CHIP R 12K J 1/16W	M2,C,C6	R222			RK73HB1J220J	CHIP R 22 J 1/16W	M,M2,C
R121			RK73HB1J153J	CHIP R 15K J 1/16W	C2	R222			RK73HB1J220J	CHIP R 22 J 1/16W	X,C6,X2
R121			RK73HB1J472J	CHIP R 4.7K J 1/16W	X2	R223			RK73HB1J121J	CHIP R 120 J 1/16W	C2
R122			RK73HB1J223J	CHIP R 22K J 1/16W	C6	R223			RK73HB1J221J	CHIP R 220 J 1/16W	M,X,C6
R122			RK73HB1J273J	CHIP R 27K J 1/16W	M,M2,C	R223			RK73HB1J221J	CHIP R 220 J 1/16W	X2
R122			RK73HB1J273J	CHIP R 27K J 1/16W	X,X2	R223			RK73HB1J331J	CHIP R 330 J 1/16W	M2,C
R122			RK73HB1J683J	CHIP R 68K J 1/16W	C2	R225			RK73HB1J683J	CHIP R 68K J 1/16W	
R123			RK73EB2ER39K	CHIP R 0.39 K 1/4W		R226			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R124			RK73HB1J101J	CHIP R 100 J 1/16W	C2	R227			RK73FB2B000J	CHIP R 0.0 J 1/8W	M,M2,C
R124			RK73HB1J220J	CHIP R 22 J 1/16W	M,M2,C	R227			RK73FB2B000J	CHIP R 0.0 J 1/8W	C2,X,C6
R124			RK73HB1J220J	CHIP R 22 J 1/16W	X,C6,X2	R228			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R125			RK73HB1J473J	CHIP R 47K J 1/16W	C6	R229			RK73GB2A000J	CHIP R 0.0 J 1/10W	X2
R125			RK73HB1J683J	CHIP R 68K J 1/16W	M,M2,C	R301			RK73HH1J474D	CHIP R 470K D 1/16W	
R125			RK73HB1J683J	CHIP R 68K J 1/16W	C2,X,X2	R302			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R126			RK73EB2ER39K	CHIP R 0.39 K 1/4W		R303			RK73HB1J101J	CHIP R 100 J 1/16W	
R127,128			RK73GH2A154D	CHIP R 150K D 1/10W		R304			RK73HB1J334J	CHIP R 330K J 1/16W	
R129,130			RK73GH2A334D	CHIP R 330K D 1/10W		R305			RK73HH1J474D	CHIP R 470K D 1/16W	
R131			RK73HB1J105J	CHIP R 1.0M J 1/16W		R306			RK73HB1J184J	CHIP R 180K J 1/16W	
R132			RK73HB1J473J	CHIP R 47K J 1/16W		R307			RK73GB2A271J	CHIP R 270 J 1/10W	
R133			RK73HB1J000J	CHIP R 0.0 J 1/16W		R308			RK73GB2A221J	CHIP R 220 J 1/10W	
R134			RK73HB1J563J	CHIP R 56K J 1/16W		R309,310			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R135			RK73HB1J104J	CHIP R 100K J 1/16W	M2,C,C2	R313			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R135			RK73HB1J104J	CHIP R 100K J 1/16W	C6,X2	R314,315			RK73HB1J103J	CHIP R 10K J 1/16W	
R135			RK73HB1J184J	CHIP R 180K J 1/16W	M,X	R316			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R136			RK73HB1J474J	CHIP R 470K J 1/16W		R317			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R137			RK73FB2B000J	CHIP R 0.0 J 1/8W		R318			RK73HB1J182J	CHIP R 1.8K J 1/16W	
R138			RK73GB2A151J	CHIP R 150 J 1/10W		R319			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R140			RK73GB2A000J	CHIP R 0.0 J 1/10W		R320			RK73HB1J123J	CHIP R 12K J 1/16W	
R141			RK73HB1J000J	CHIP R 0.0 J 1/16W		R321			RK73HB1J103J	CHIP R 10K J 1/16W	
R201			RK73HB1J184J	CHIP R 180K J 1/16W	C2,C6	R322,323			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R201			RK73HB1J823J	CHIP R 82K J 1/16W	M,M2,C	R324,325			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R201			RK73HB1J823J	CHIP R 82K J 1/16W	X,X2	R340-342			RK73HB1J103J	CHIP R 10K J 1/16W	
R203			RK73HB1J472J	CHIP R 4.7K J 1/16W		R344			RK73HB1J474J	CHIP R 470K J 1/16W	
R204			RK73HB1J100J	CHIP R 10 J 1/16W		R345			RK73HB1J273J	CHIP R 27K J 1/16W	
R205			RK73HB1J823J	CHIP R 82K J 1/16W		R347			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R206			RK73HB1J272J	CHIP R 2.7K J 1/16W		R348			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R207			RK73HB1J332J	CHIP R 3.3K J 1/16W		R349			RK73HB1J105J	CHIP R 1.0M J 1/16W	
R208			RK73HB1J823J	CHIP R 82K J 1/16W		R350			RK73HB1J124J	CHIP R 120K J 1/16W	
R209			RK73HB1J332J	CHIP R 3.3K J 1/16W		R351			RK73HB1J334J	CHIP R 330K J 1/16W	
R210			RK73HB1J392J	CHIP R 3.9K J 1/16W	M,M2,C	R352			RK73HB1J154J	CHIP R 150K J 1/16W	
R210			RK73HB1J392J	CHIP R 3.9K J 1/16W	X,C6,X2	R353			RK73HB1J123J	CHIP R 12K J 1/16W	
R210			RK73HB1J472J	CHIP R 4.7K J 1/16W	C2	R354			RK73HB1J334J	CHIP R 330K J 1/16W	
R211			RK73HB1J101J	CHIP R 100 J 1/16W		R355			RK73HB1J124J	CHIP R 120K J 1/16W	
R212			RK73HB1J184J	CHIP R 180K J 1/16W	X2	R356			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R212			RK73HB1J224J	CHIP R 220K J 1/16W	M,M2,C	R357			RK73HB1J563J	CHIP R 56K J 1/16W	
R212			RK73HB1J224J	CHIP R 220K J 1/16W	C2,X,C6	R358			RK73HB1J474J	CHIP R 470K J 1/16W	
R213			RK73HB1J391J	CHIP R 390 J 1/16W		R359			RK73HB1J473J	CHIP R 47K J 1/16W	
R214			RK73HB1J331J	CHIP R 330 J 1/16W		R360			RK73HB1J562J	CHIP R 5.6K J 1/16W	
R215			RK73HB1J222J	CHIP R 2.2K J 1/16W		R361			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R216			RK73HB1J151J	CHIP R 150 J 1/16W		R362			RK73HB1J184J	CHIP R 180K J 1/16W	
R217			RK73HB1J332J	CHIP R 3.3K J 1/16W		R363,364			RK73HB1J104J	CHIP R 100K J 1/16W	

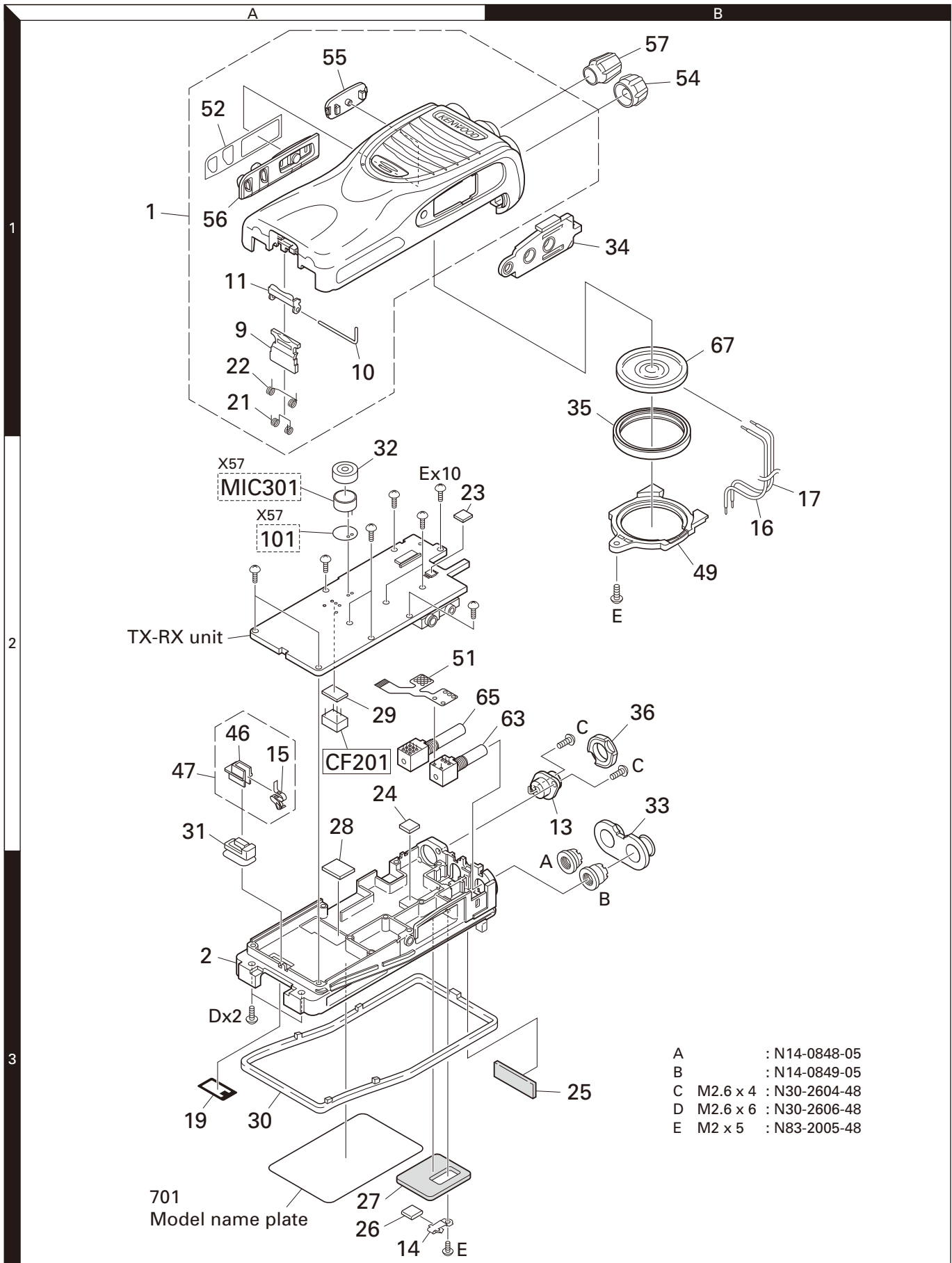


## PARTS LIST / 零件表

TX-RX UNIT (X57-758X-XX)

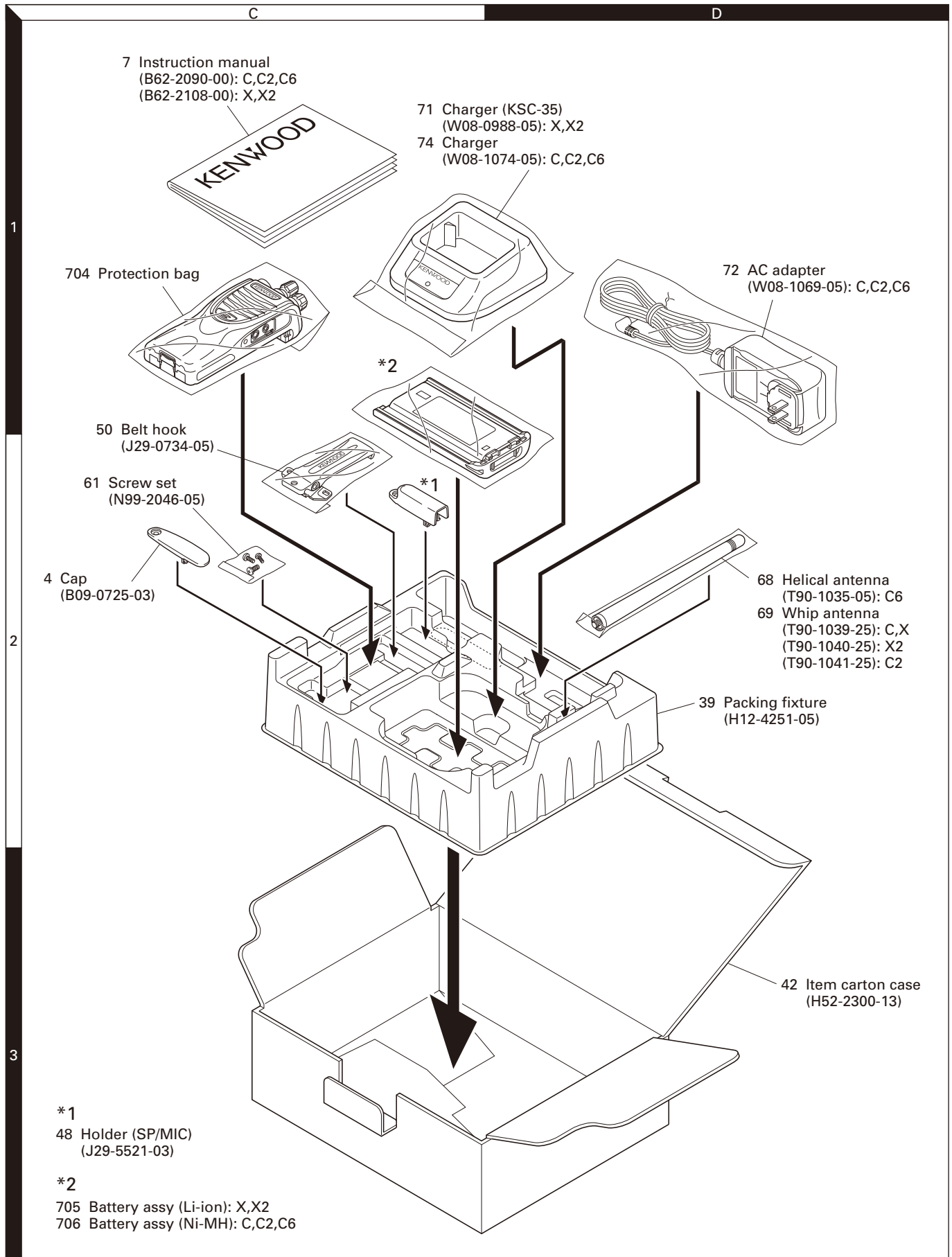
Ref. No.	Address	New parts	Parts No.	Description	Desti-nation	Ref. No.	Address	New parts	Parts No.	Description	Desti-nation
R365			RK73HB1J332J	CHIP R 3.3K J 1/16W		Q1			KTC4075E(Y,GR)	TRANSISTOR	
R366			RK73HB1J154J	CHIP R 150K J 1/16W		Q2			2SC4774	TRANSISTOR	
R367			RK73HB1J393J	CHIP R 39K J 1/16W		Q3			2SC5636	TRANSISTOR	
R368			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q4,5			2SK1875-F(V)	FET	
R369			RK73HB1J823J	CHIP R 82K J 1/16W		Q6			KTC4075E(Y,GR)	TRANSISTOR	
R370			RK73HB1J102J	CHIP R 1.0K J 1/16W		Q7,8			RT1P430U	TRANSISTOR	
R371			RK73HB1J272J	CHIP R 2.7K J 1/16W		Q9			2SC5636	TRANSISTOR	
R372			RK73HB1J000J	CHIP R 0.0 J 1/16W		Q10			KTC4075E(Y,GR)	TRANSISTOR	
R373			RK73HB1J224J	CHIP R 220K J 1/16W		Q11			2SC5636	TRANSISTOR	
R374			RK73HB1J153J	CHIP R 15K J 1/16W		Q101			2SC5636	TRANSISTOR	
R375			RK73HB1J182J	CHIP R 1.8K J 1/16W		Q102			2SC4926YD	TRANSISTOR	M,X
R376			RK73HB1J471J	CHIP R 470 J 1/16W		Q102			2SC5455-A	TRANSISTOR	M2,C,C2
R377			RK73HB1J473J	CHIP R 47K J 1/16W		Q102			2SC5455-A	TRANSISTOR	X2,C6
R378			RK73HB1J561J	CHIP R 560 J 1/16W		Q103			ROA0004PXDQS	FET	
R379			RK73HB1J102J	CHIP R 1.0K J 1/16W		Q104			RT1N441U	TRANSISTOR	C2,C6,X2
R380			RK73HB1J474J	CHIP R 470K J 1/16W		Q106			RD07MVS1BT122	FET	
R381			RK73HB1J151J	CHIP R 150 J 1/16W		Q107			RT1N441U	TRANSISTOR	
R383			RK73HB1J563J	CHIP R 56K J 1/16W		Q108			2SK1824-A	FET	
R384			RK73HB1J333J	CHIP R 33K J 1/16W		Q109			RT1P441U	TRANSISTOR	
R385			RK73GB2A101J	CHIP R 100 J 1/10W		Q201			RT1P441U	TRANSISTOR	
R387			RK73HB1J104J	CHIP R 100K J 1/16W		Q202			2SC4774	TRANSISTOR	
R388			RK73HB1J101J	CHIP R 100 J 1/16W		Q203,204			3SK318	FET	
R389			RK73HB1J000J	CHIP R 0.0 J 1/16W		Q301,302			RT1N441U	TRANSISTOR	
R390			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q303			RT1P141U	TRANSISTOR	
R391			RK73HB1J102J	CHIP R 1.0K J 1/16W		Q304			DTB723YE	DIGITAL TRANSISTOR	
R393			RK73GB2A000J	CHIP R 0.0 J 1/10W		Q305,306			2SC4919	TRANSISTOR	
R394			RK73HB1J473J	CHIP R 47K J 1/16W		Q307			RT1N441U	TRANSISTOR	
R398			RK73HB1J000J	CHIP R 0.0 J 1/16W		Q308			KTC4075E(Y,GR)	TRANSISTOR	
VR1			R32-0736-05	SEMI FIXED VARIABLE RESISTOR		Q310			2SC4116(GR)F	TRANSISTOR	
S1-3			S70-0414-05	TACT SWITCH		Q311			2SA1586(Y,GR)F	TRANSISTOR	
MIC301	2A		T91-0651-15	MIC ELEMENT		Q312			RT1N441U	TRANSISTOR	
D3,4			1SV325F	VARIABLE CAPACITANCE DIODE		Q313			2SB1694	TRANSISTOR	
D6			1SV325F	VARIABLE CAPACITANCE DIODE		Q314			RT1N441U	TRANSISTOR	
D8			1SV325F	VARIABLE CAPACITANCE DIODE		Q315,316			2SK3577-A	FET	
D9			KDV214E-P	DIODE		TH101			B57331V2104J	THERMISTOR	
D10			MC2858	DIODE		TH201			B57331V2104J	THERMISTOR	
D101			UDZW5.1(B)	ZENER DIODE							
D103			HSC277	DIODE							
D104			HVC131	DIODE	C2						
D104,105			HVC131	DIODE	M,M2,C						
D104,105			HVC131	DIODE	X,X2						
D106			HVC131	DIODE	C2,C6						
D201-205			HVC355B	VARIABLE CAPACITANCE DIODE							
D301			GN1G	DIODE							
D302			HRC0203C	DIODE							
D306			KDR731	DIODE							
D307			MC2850	DIODE							
D308,309			KDR731	DIODE							
IC1			MB15A02PFV2E1	MOS-IC							
IC101			BA2904FVM	MOS-IC							
IC201			TA31136FNG	MOS-IC							
IC301			BD4840FVE	MOS-IC							
IC303			XC6209B502PR	MOS-IC							
IC304			XC6209B502MR	MOS-IC							
IC305			BR24L16F-W	ROM IC							
IC306		*	R5F212CCKCMB	MICROCONTROLLER IC							
IC308			AQUA-L	MOS-IC							
IC309			TA7368FG	MOS-IC							

## EXPLODED VIEW / 部件分解图



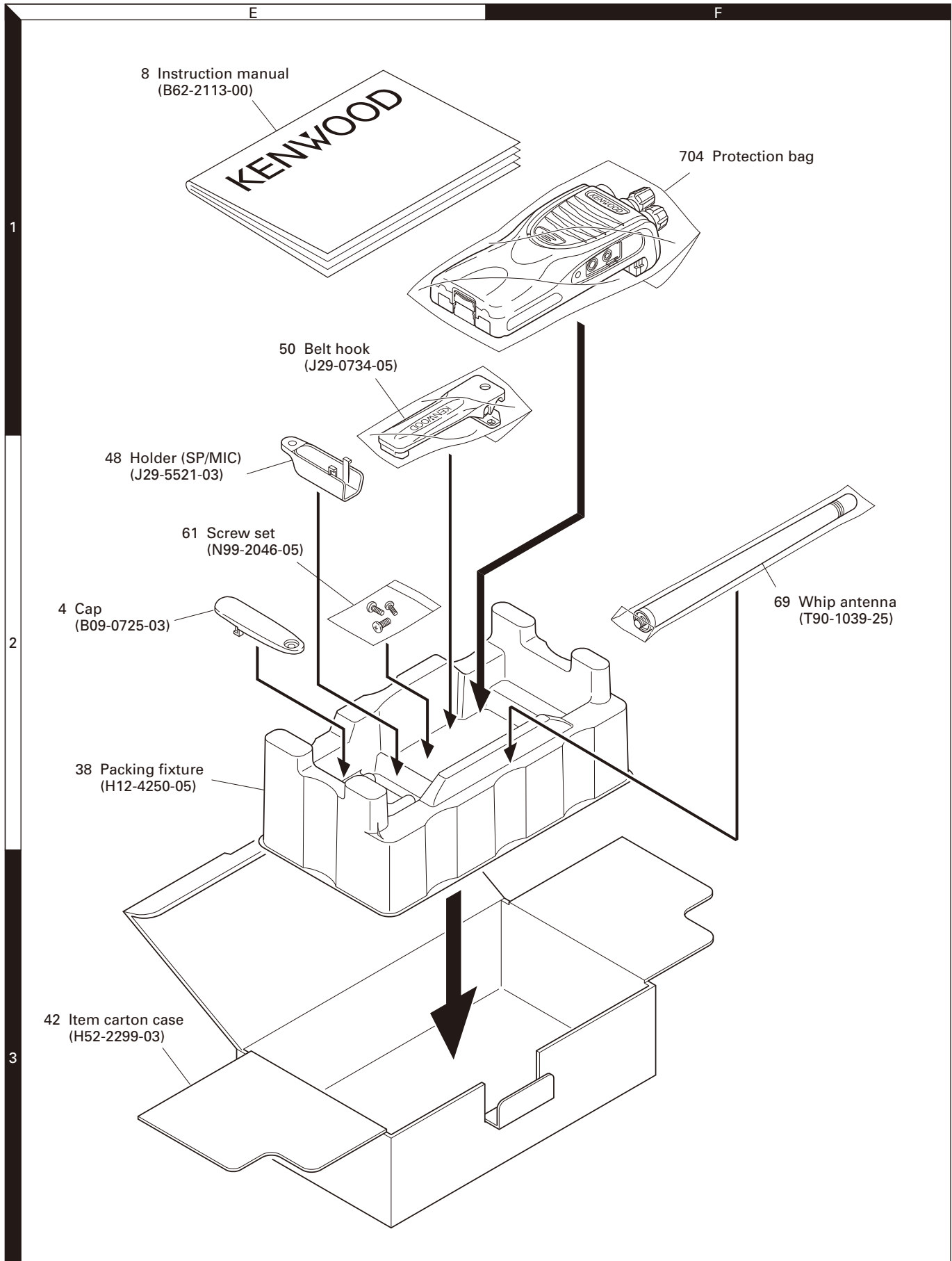
Parts with the exploded numbers larger than 700 are not supplied.  
 If a part reference number is listed in a box on the exploded view of the PCB, that part does not come with the PCB.  
 These parts must be ordered separately.

## PACKING (C,C2,C6,X,X2 TYPE) / 包装 (C,C2,C6,X,X2 类型)



Parts with the exploded numbers larger than 700 are not supplied.

## PACKING (M,M2 TYPE) / 包装 (M,M2 类型)



# ADJUSTMENT

## Test Equipment Required for Alignment

Test Equipment	Major Specifications	
1. Standard Signal Generator (SSG)	Frequency Range Modulation Output	Operational frequency range of the transceiver Frequency modulation and external modulation -127dBm/0.1 $\mu$ V to greater than -47dBm/1mV
2. RF Power Meter	Input Impedance Operation Frequency Measurement Range	50 $\Omega$ Operational frequency range of the transceiver Vicinity of 10W
3. Deviation Meter	Frequency Range	Operational frequency range of the transceiver
4. Digital Volt Meter (DVM)	Measuring Range Input Impedance	10mV to 10V DC High input impedance for minimum circuit loading
5. Oscilloscope		DC through 30MHz
6. High Sensitivity Frequency Counter	Frequency Range Frequency Stability	10Hz to 1000MHz 0.2ppm or less
7. DC Ammeter		5A
8. AF Volt Meter (AF VTVM)	Frequency Range Voltage Range	50Hz to 10kHz 1mV to 10V
9. Audio Generator (AG)	Frequency Range Output	50Hz to 5kHz or more 0 to 1V
10. Distortion Meter	Capability Input Level	3% or less at 1kHz 50mV to 10Vrms
11. Spectrum Analyzer	Measuring Range	DC to 1GHz or more
12. Tracking Generator	Center frequency Output Voltage	50kHz to 600MHz 100mV or more
13. 4 $\Omega$ Dummy Load		Approx. 4 $\Omega$ , 3W
14. Regulated Power Supply		5V to 10V, approx. 3A Useful if ammeter equipped

### ■ Antenna connector adapter

The antenna connector of this transceiver uses an SMA terminal.

Use an antenna connector adapter [SMA(f) – BNC(f) or SMA(f) – N(f)] for adjustment. (The adapter is not provided as an option, so buy a commercially-available one.)

### ■ Repair Jig (Chassis)

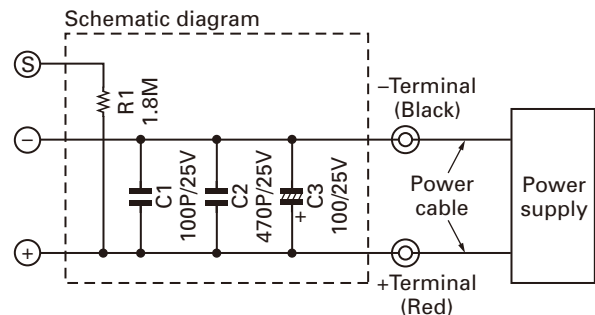
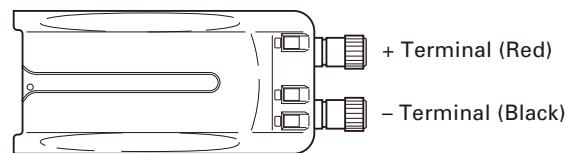
Use jig (part No.: A10-4215-03) for repairing the transceiver. Place the TX-RX unit on the jig and fit it with screws.

The jig facilitates the voltage check and protects the final amplifier FET when the voltage on the flow side of the TX-RX unit is checked during repairs.

### ■ Battery Jig (W05-1011-00)

Connect the power cable properly between the battery jig installed in the transceiver and the power supply, and be sure output voltage and the power supply polarity prior to switching the power supply ON, otherwise over voltage and reverse connection may damage the transceiver, or the power supply or both.

**Note:** When using the battery jig, you must measure the voltage at the terminals of the battery jig. Otherwise, a slight voltage drop may occur within the power cable, between the power supply and the battery jig, especially while the transceiver transmits.



## 所需的用于调整的测试设备

测 试 设 备	主 要 规 格	
1. 标准信号发生器 (SSG)	频率范围 调制 输出	对讲机的操作频率范围 调频和外部调制 -127dBm/0.1 $\mu$ V 到大于 -47dBm/1mV
2. RF 功率计	输入阻抗 操作频率 测量范围	50 $\Omega$ 对讲机的操作频率范围 10W 左右
3. 频偏仪	频率范围	对讲机的操作频率范围
4. 数字电压表 (DVM)	测量范围 输入阻抗	直流 10mV 到 10V 为最小电路负载高输入阻抗
5. 示波器		直流到 30MHz
6. 高灵敏度频率计数器	频率范围 频率稳定性	10Hz 到 1000MHz 0.2ppm 或更低
7. 直流电流表		5A
8. 音频电压表 (AF VTVM)	频率范围 电压范围	50Hz 到 10kHz 1mV 到 10V
9. 音频发生器 (AG)	频率范围 输出	50Hz 到 5kHz 或更高 0 到 1V
10. 失真测试仪	能力 输入电平	在 1kHz 时 3% 或更低 50mV 到 10Vrms
11. 频谱分析仪	测量范围	直流到 1GHz 或更高
12. 轨迹发生器	中心频率 输出电压	50kHz 到 600MHz 100mV 或更高
13. 4 $\Omega$ 假负载		大约 4 $\Omega$ , 3W
14. 可调电源		5V 到 10V, 大约 3A 配备了电流表时更好

## ■ 天线接口转换头

此对讲机的天线接口使用 SMA 终端。

使用天线接口转换头 [SMA(f)-BNC(f) 或 SMA(f)-N(f)] 进行调整。(转换头不作为可选件提供,因此请购买商用转换头。)

## ■ 维修机架 (机壳)

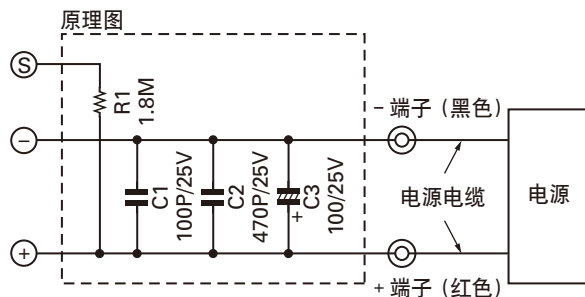
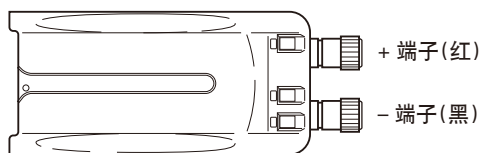
使用机壳 (A10-4215-03) 维修对讲机。将 TX-RX 单元放置在机壳上, 并且拧上螺钉。

在维修过程中, 需要在 TX-RX 单元的电路板上检测电压时, 机壳可以方便地进行电压检测, 并且保护模块。

## ■ 电池夹具 (W05-1011-00)

在对讲机的电池夹具和电源之间连接适当的电源电缆, 确认了输出电压之后接通电源开关, 电压超过或极性颠倒都有可能损坏对讲机。

注: 当使用电池夹具时, 你必须测定电池夹具的终端电压。因为, 电源和电池夹具之间会有一些的电压下降, 尤其在对讲机发射的时候。



## ADJUSTMENT / 调整

### Frequency and Signaling

The transceiver has been adjusted for the frequencies shown in the following table. When required, re-adjust them following the adjustment procedure to obtain the frequencies you want in actual operation.

#### ■ Frequency (MHz)

##### • X2 type

Channel No.	RX Frequency	TX Frequency
1	495.050	495.100
2	470.050	470.100
3	519.950	519.900
4	495.000	495.000
5	495.200	495.200
6	495.400	495.400
7~16	-	-

##### • C6 type

Channel No.	RX Frequency	TX Frequency
1	370.050	370.100
2	350.050	350.100
3	389.950	389.900
4	370.000	370.000
5	370.200	370.200
6	370.400	370.400
7~16	-	-

#### ■ Signaling

Signaling No.	RX	TX
1	None	None
2	None	100Hz Square Wave
3	QT 67.0Hz	QT 67.0Hz
4	QT 151.4Hz	QT 151.4Hz
5	QT 250.3Hz	QT 250.3Hz
6	DQT D023N	DQT D023N
7	DQT D754I	DQT D754I
8	DTMF Decode [159D]	DTMF Encode [159D]
9	None	DTMF Tone 9

### 频率和信令

频率设定调整如下表所示。当需要时，按照如下调整程序重新调整，以便获得您在实际操作时希望的频率。

#### ■ 频率 (MHz)

##### • X2 类型

信道号码	RX 频率	TX 频率
1	495.050	495.100
2	470.050	470.100
3	519.950	519.900
4	495.000	495.000
5	495.200	495.200
6	495.400	495.400
7~16	-	-

##### • C6 类型

信道号码	RX 频率	TX 频率
1	370.050	370.100
2	350.050	350.100
3	389.950	389.900
4	370.000	370.000
5	370.200	370.200
6	370.400	370.400
7~16	-	-

#### ■ 信令

信令号码	RX	TX
1	无	无
2	无	100Hz 方形波
3	QT 67.0Hz	QT 67.0Hz
4	QT 151.4Hz	QT 151.4Hz
5	QT 250.3Hz	QT 250.3Hz
6	DQT D023N	DQT D023N
7	DQT D754I	DQT D754I
8	DTMF 解码 [159D]	DTMF 编码 [159D]
9	无	DTMF 音频 9

## ADJUSTMENT / 调整

### Preparations for Tuning the Transceiver

Before attempting to tune the transceiver, connect the unit to a suitable power supply.

Whenever the transmitter is tuned, the unit must be connected to a suitable dummy load (i.e. power meter).

The speaker output connector must be terminated with a 8Ω dummy load and connected to an AC voltmeter and an audio distortion meter or a SINAD measurement meter at all times during tuning.

### 调谐对讲机的准备

在调谐对讲机之前，把装置连接到规定的电源。

任何时候调整发射，装置必须连接到合适的假负载（即功率表）。

在全部调谐过程中，扬声器输出端子必须连接 8Ω 假负载连接到 AC 伏特计和音频失真仪或 SINAD 测试表。

#### ■ Adjustment frequency

TEST CH	X2	
	RX	TX
Center	495.050MHz	495.100MHz
Low	470.050MHz	470.100MHz
High	519.950MHz	519.900MHz
Low'	482.550MHz	482.600MHz
High'	507.550MHz	507.600MHz

#### ■ 调整频率

测试 CH	X2	
	RX	TX
中心	495.050MHz	495.100MHz
低	470.050MHz	470.100MHz
高	519.950MHz	519.900MHz
低'	482.550MHz	482.600MHz
高'	507.550MHz	507.600MHz

TEST CH	C6	
	RX	TX
Center	370.050MHz	370.100MHz
Low	350.050MHz	350.100MHz
High	389.950MHz	389.900MHz
Low'	360.050MHz	360.100MHz
High'	380.050MHz	380.100MHz

测试 CH	C6	
	RX	TX
中心	370.050MHz	370.100MHz
低	350.050MHz	350.100MHz
高	389.950MHz	389.900MHz
低'	360.050MHz	360.100MHz
高'	380.050MHz	380.100MHz

#### ■ List of FPU for transceiver

Model	Type	FPU
TK-3307	X2	KPG-118D(M)
	C6	KPG-118D(C)

#### ■ 对讲机的 FPU 名单

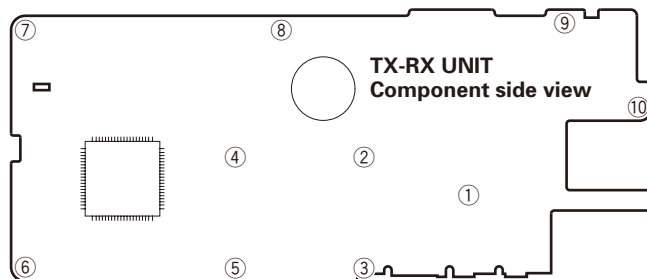
型号	类型	FPU
TK-3307	X2	KPG-118D(M)
	C6	KPG-118D(C)

### Screw sequence for mounting the TX-RX unit to the chassis

Attach the TX-RX unit to the chassis using the screws in the order shown in the drawing below.

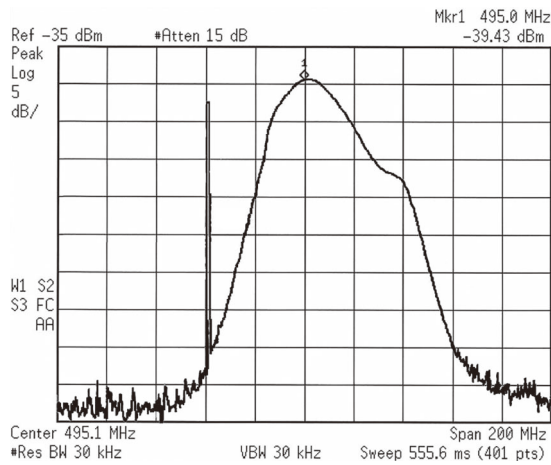
### 安装 TX-RX 单元到机架上的螺钉顺序

利用下图所示的螺钉顺序安装 TX-RX 单元到机架上。

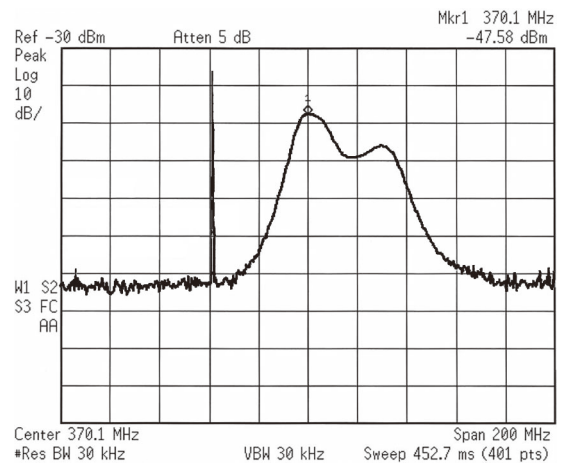




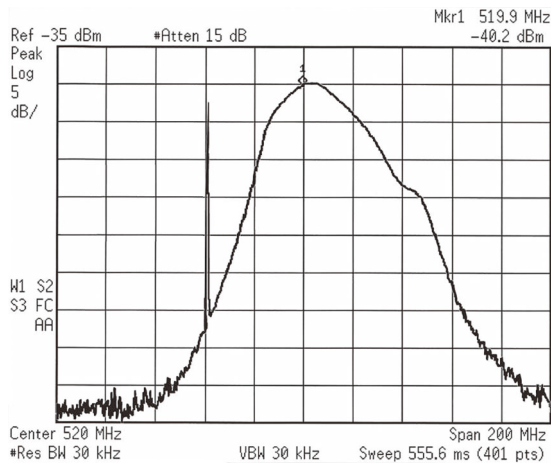
## ADJUSTMENT / 调整



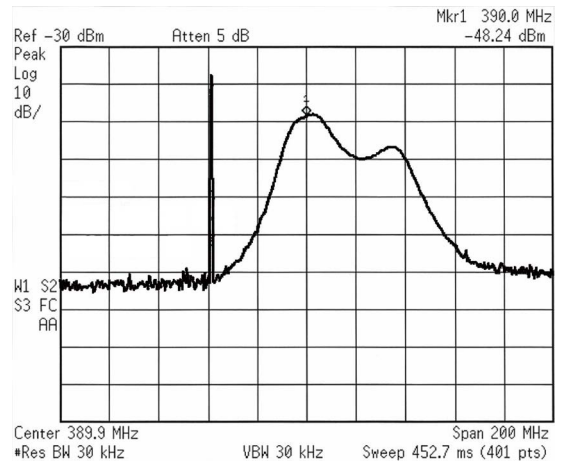
**Fig. 1 Center frequency: X2**  
 图 1 中心频率 : X2



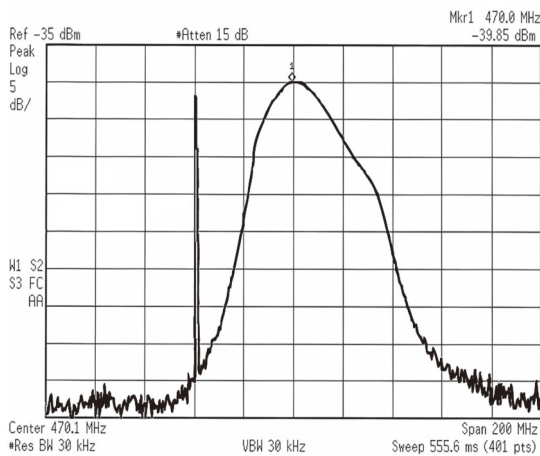
**Fig. 4 Center frequency: C6**  
 图 4 中心频率 : C6



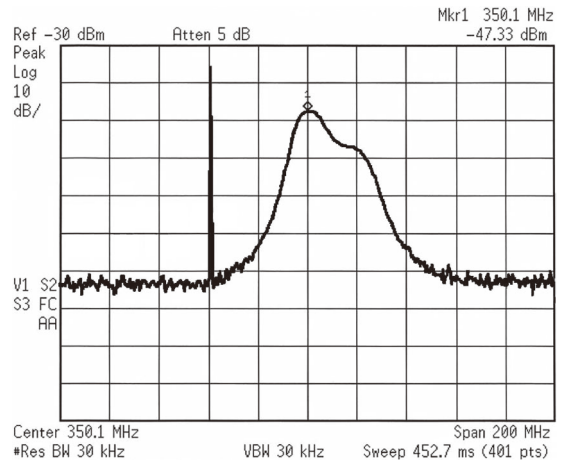
**Fig. 2 High-edge frequency: X2**  
 图 2 高边频率 : X2



**Fig. 5 High-edge frequency: C6**  
 图 5 高边频率 : C6



**Fig. 3 Low-edge frequency: X2**  
 图 3 低边频率 : X2




**Fig. 6 Low-edge frequency: C6**  
 图 6 低边频率 : C6

## ADJUSTMENT

### Common Section

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. Setting	1) BATT terminal vorage: 7.5V 2) SSG standard modulation [Wide] MOD: 1kHz, DEV: 3kHz [Narrow] MOD: 1kHz, DEV: 1.5kHz							
2. VCO lock voltage RX	1) CH: High	Power meter DVM	TX-RX	ANT	TX-RX	TC1	4.0V <b>X2</b> 3.8V <b>C6</b>	±0.1V
	2) CH: Low			LV (CV)			Check	0.6V or more
3. VCO lock voltage TX	3) CH: High PTT: ON				TX-RX	TC2	3.7V <b>X2</b> 3.8V <b>C6</b>	±0.1V
	4) CH: Low PTT: ON						Check	0.6V or more

### Transmitter Section


Item	Condition	Measurement			Adjustment			Specifications / Remarks	
		Test-equipment	Unit	Terminal	Unit	Parts	Method		
1. Frequency Adjust	1) CH: High PTT: ON	f. counter		ANT	TX-RX	VR1	High frequency	±50Hz	
2. High Transmit Power	1) TEST CH: Low, Low', Center, High', High (5 points) BATT terminal voltage: 7.5V PTT: ON	Power meter Ammeter				FPU		4.0W±0.1W 2.0A or less	
3. Low Transmit Power	1) TEST CH: Low, Low', Center, High', High (5 points) BATT terminal voltage: 7.5V PTT: ON							1.0W±0.1W 1.0A or less	
4. Maximum Deviation [Wide]	1) TEST CH: Center, Low, High (3 points) AG: 1kHz/150mV Deviation meter filter LPF: 15kHz HPF: OFF PTT: ON	Power meter Deviation meter Oscilloscope  AG AF VTVM		ANT				4.4kHz (According to the larger +, -)	±80Hz
	[Narrow]			2) TEST CH: Center PTT: ON				SP/MIC connector	2.2kHz (According to the larger +, -)
5. DQT Balance [Wide]	1) TEST CH: Center, Low, High (3 points) Deviation meter filter LPF: 3kHz HPF: OFF PTT: ON						Make the demodulation wave into square waves.		
	[Narrow]	2) TEST CH: Center PTT: ON							

## 调 整

## 公用部分

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
1. 设置	1) BATT 终端电压 : 7.5V 2) SSG 标准调制 [ 宽 ] MOD: 1kHz, DEV: 3kHz [ 窄 ] MOD: 1kHz, DEV: 1.5kHz							
2. VCO 锁定电压 RX	1) CH: 高	功率计 DVM	TX-RX	ANT LV (CV)	TX-RX	TC1	4.0V X2 3.8V C6	±0.1V
	2) CH: 低						检查	0.6V 或更高
3. VCO 锁定电压 TX	3) CH: 高 PTT: 开启				TX-RX	TC2	3.7V X2 3.8V C6	±0.1V
	4) CH: 低 PTT: 开启						检查	0.6V 或更高

## 发 射 部

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
1. 频率调整	1) CH: 高 PTT: 开启	频率计数器		ANT	TX-RX	VR1	高频率	±50Hz
2. 高发射功率	1) 测试 CH: 低, 低', 中心, 高', 高 (5 点) BATT 终端电压 : 7.5V PTT: 开启	功率计 电流表				FPU		4.0W ± 0.1W 2.0A 或更低
3. 低发射功率	1) 测试 CH: 低, 低', 中心, 高', 高 (5 点) BATT 终端电压 : 7.5V PTT: 开启							1.0W ± 0.1W 1.0A 或更低
4. 最大频偏 [ 宽 ]	1) 测试 CH: 中心, 低, 高 (3 点) AG: 1kHz/150mV 频偏仪滤波器 LPF: 15kHz HPF: 关闭 PTT: 开启	功率计 频偏仪 示波器 AG AF VTVM		ANT SP/MIC 连接器			4.4kHz (按照最大 +, -)	±80Hz
	[ 窄 ]	2) 测试 CH: 中心 PTT: 开启					2.2kHz (按照最大 +, -)	±80Hz
5. DQT 平衡 [ 宽 ]	1) 测试 CH: 中心, 低, 高 (3 点) 频偏仪滤波器 LPF: 3kHz HPF: 关闭 PTT: 开启						把解调波调整为方波	
	[ 窄 ]	2) 测试 CH: 中心 PTT: 开启						

## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
6. QT Fine Deviation [Wide]	1) TEST CH: Center, Low, High (3 points) Deviation meter filter LPF: 3kHz HPF: OFF PTT: ON	Power meter Deviation meter Oscilloscope  AG AF VTVM		ANT		FPU	0.75kHz	±40Hz
	[Narrow]			2) TEST CH: Center PTT: ON			SP/MIC connector	
7. DQT Fine Deviation [Wide]	1) TEST CH: Center, Low, High (3 points) Deviation meter filter LPF: 3kHz HPF: OFF PTT: ON						0.75kHz	±40Hz
	[Narrow]						2) TEST CH: Center PTT: ON	
8. DTMF Fine Deviation [Wide]	1) TEST CH: Center Deviation meter filter LPF: 15kHz HPF: OFF PTT: ON						3.0kHz	±100Hz
	[Narrow]						2) TEST CH: Center PTT: ON	
9. MSK Fine Deviation [Wide]	1) TEST CH: Center Deviation meter filter LPF: 15kHz HPF: OFF PTT: ON						3.0kHz	±100Hz
	[Narrow]						2) TEST CH: Center PTT: ON	

## Receiver Section

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
1. BPF Wave Adjust <b>X2</b>	1) Center frequency Spectrum analyzer setting Center-f: 495MHz Span: 200MHz RBW: 30kHz VBW: 30kHz ATT: 15dB 2) High-edge frequency Spectrum analyzer setting Center-f: 520MHz 3) Low-edge frequency Spectrum analyzer setting Center-f: 470MHz	S5G  Spectrum analyzer		ANT  BPF		FPU	Adjust the waveform as shown to the Fig. 1~3.	

## 调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
6. QT 细频偏 [ 宽 ]	1) 测试 CH: 中心, 低, 高 (3 点) 频偏仪滤波器 LPF: 3kHz HPF: 关闭 PTT: 开启	功率计 频偏仪 示波器  AG AF VTVM		ANT  SP/MIC 连接器		FPU	0. 75kHz	± 40Hz
[ 窄 ]	2) 测试 CH: 中心 PTT: 开启						0. 38kHz	± 40Hz
7. DQT 细频偏 [ 宽 ]	1) 测试 CH: 中心, 低, 高 (3 点) 频偏仪滤波器 LPF: 3kHz HPF: 关闭 PTT: 开启						0. 75kHz	± 40Hz
[ 窄 ]	2) 测试 CH: 中心 PTT: 开启						0. 38kHz	± 40Hz
8. DTMF 细频偏 [ 宽 ]	1) 测试 CH: 中心 频偏仪滤波器 LPF: 15kHz HPF: 关闭 PTT: 开启						3. 0kHz	± 100Hz
[ 窄 ]	2) 测试 CH: 中心 PTT: 开启						1. 5kHz	± 100Hz
9. MSK 细频偏 [ 宽 ]	1) 测试 CH: 中心 频偏仪滤波器 LPF: 15kHz HPF: 关闭 PTT: 开启						3. 0kHz	± 100Hz
[ 窄 ]	2) 测试 CH: 中心 PTT: 开启						1. 5kHz	± 100Hz

## 接 收 部

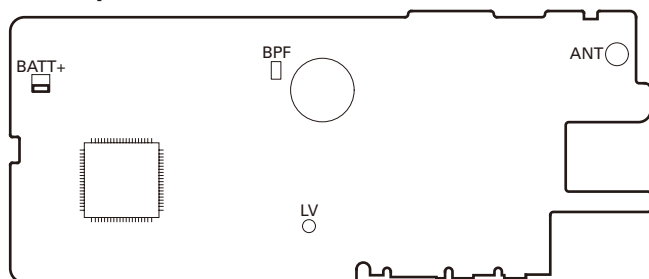
项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
1. BPF 波形 调整 X2	1) 中心频率 频谱分析仪设定 Center-f: 495MHz Span: 200MHz RBW: 30kHz VBW: 30kHz ATT: 15dB 2) 高边频率 频谱分析仪设定 Center-f: 520MHz 3) 低边频率 频谱分析仪设定 Center-f: 470MHz	SSG  频谱分析 仪		ANT  BPF		FPU	调整波形如图 1~3 所示	

## ADJUSTMENT

Item	Condition	Measurement			Adjustment			Specifications / Remarks
		Test-equipment	Unit	Terminal	Unit	Parts	Method	
<b>C6</b>	1) Center frequency Spectrum analyzer setting Center-f: 370MHz Span: 200MHz RBW: 30kHz VBW: 30kHz ATT: 5dB 2) High-edge frequency Spectrum analyzer setting Center-f: 390MHz 3) Low-edge frequency Spectrum analyzer setting Center-f: 350MHz	SSG  Spectrum analyzer	TX-RX	ANT  BPF		FPU	Adjust the waveform as shown to the Fig. 4~6.	
2. Sensitivity [Wide]	1) TEST CH: Low, Center, High (3 points) SSG output : -117dBm (0.3μV) SSG MOD: 3.0kHz	SSG  DVM Oscilloscope AF VTVM		ANT			Check	12dB SINAD or more
[Narrow]	2) TEST CH: Center SSG output : -115dBm (0.4μV) SSG MOD: 1.5kHz			SP/MIC connector				
3. Squelch Open [Wide]	1) TEST CH: Center, Low, High (3 points) SSG output : -123dBm (0.16μV) SSG MOD: 3.0kHz				FPU	Write		
[Narrow]	2) TEST CH: Center SSG output : -122dBm (0.18μV) SSG MOD: 1.5kHz							
4. Squelch Tight [Wide]	1) TEST CH: Center, Low, High (3 points) SSG output : -117dBm (0.3μV) SSG MOD: 3.0kHz							
[Narrow]	2) TEST CH: Center SSG output : -116dBm (0.35μV) SSG MOD: 1.5kHz							
5. Battery Warning Level	1) BATT terminal voltage: 5.9V	SSG DVM	TX-RX	ANT BATT terminal			Write	BATT terminal voltage: 5.9V

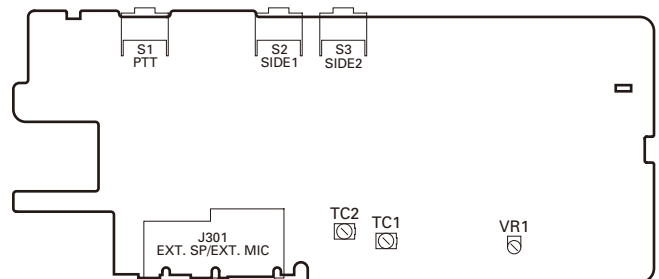
### Adjustment Points

#### ■ Component side view



BPF: BPF Wave Adjust  
LV (CV): VCO lock voltage  
BATT+: Battery Warning Level

#### ■ Foil side view



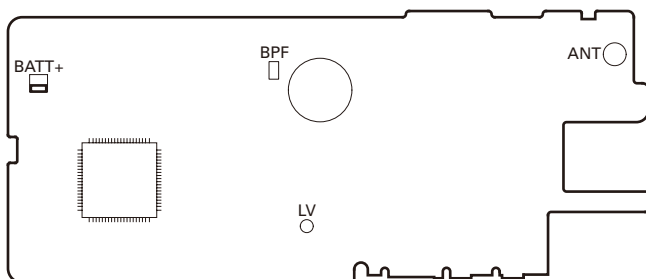
TC1 : VCO lock voltage (RX)  
TC2 : VCO lock voltage (TX)  
VR1 : Frequency adjustment

## 调 整

项 目	条 件	测 量			调 整			规 格 / 备 注
		测量装置	单元	端子	单元	部件	方 法	
C6	1) 中心频率 频谱分析仪设定 Center-f:370MHz Span:200MHz RBW:30kHz VBW:30kHz ATT:5dB 2) 高边频率 频谱分析仪设定 Center-f:390MHz 3) 低边频率 频谱分析仪设定 Center-f:350MHz	SSG  频谱分析仪	TX-RX	ANT  BPF		FPU	调整波形如图 4~6 所示	
2. 灵敏度 [ 宽 ]	1) 测试 CH: 中心, 低, 高 (3 点) SSG 输出 : - 117dBm(0. 3μV) SSG 调制 : 3. 0kHz	SSG  DVM 示波器 AF VTVM		ANT  SP/MIC 连接器			检查	12dB SINAD 或更高
[ 窄 ]	2) 测试 CH: 中心 SSG 输出 : - 115dBm(0. 4μV) SSG 调制 : 1. 5kHz							
3. 打开静噪 [ 宽 ]	1) 测试 CH: 中心, 低, 高 (3 点) SSG 输出 : - 123dBm(0. 16μV) SSG 调制 : 3. 0kHz					FPU	写入	
[ 窄 ]	2) 测试 CH: 中心 SSG 输出 : - 122dBm(0. 18μV) SSG 调制 : 1. 5kHz							
4. 深静噪 [ 宽 ]	1) 测试 CH: 中心, 低, 高 (3 点) SSG 输出 : - 117dBm(0. 3μV) SSG 调制 : 3. 0kHz							
[ 窄 ]	2) 测试 CH: 中心 SSG 输出 : - 116dBm(0. 35μV) SSG 调制 : 1. 5kHz							
5. 电池警告 电平	1) BATT 终端电压 : 5. 9V	SSG DVM	TX-RX	ANT BATT 终端			写入	BATT 终端电压 : 5. 9V

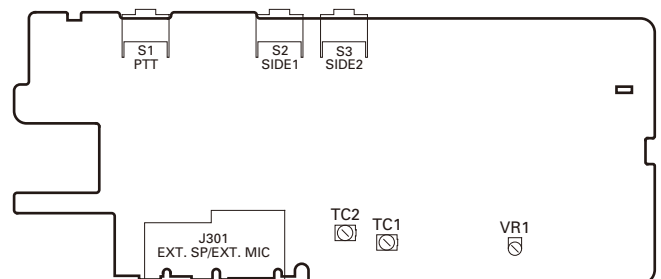
## 调整点

## ■ 元件面视图



BPF: BPF 波形调整  
LV (CV): VCO 锁定电压  
BATT+: 电池警告电平

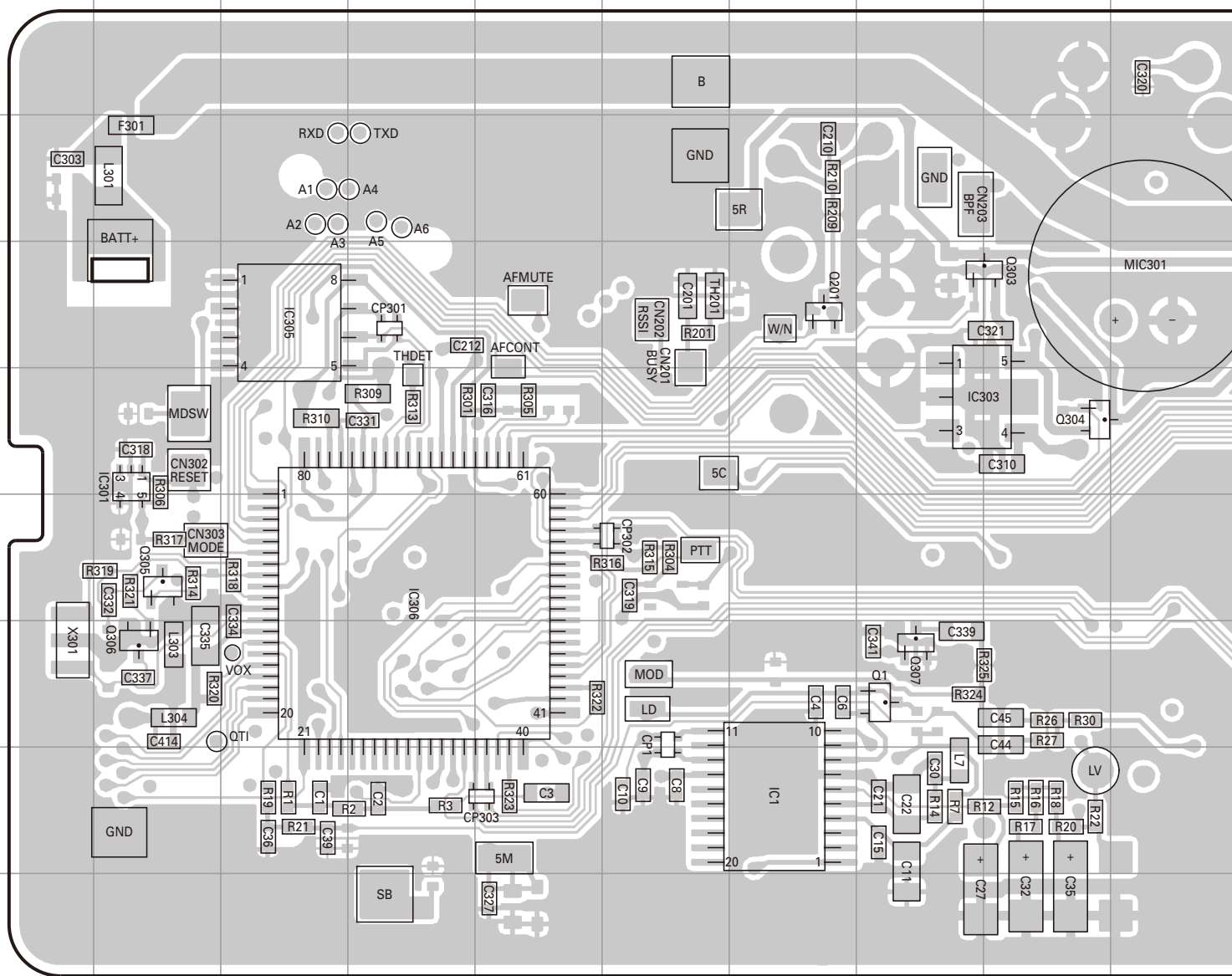
## ■ 箔面视图



TC1: VCO 锁定电压 (RX)  
TC2: VCO 锁定电压 (TX)  
VR1: 频率调整

# TK-3307 PC BOARD / PC板

TX-RX UNIT (X57-758X-XX) 0-20: M,X 0-21: M2,C 0-22: X2 0-23: C2 3-01: C6  
 Component side view (J79-0187-09)

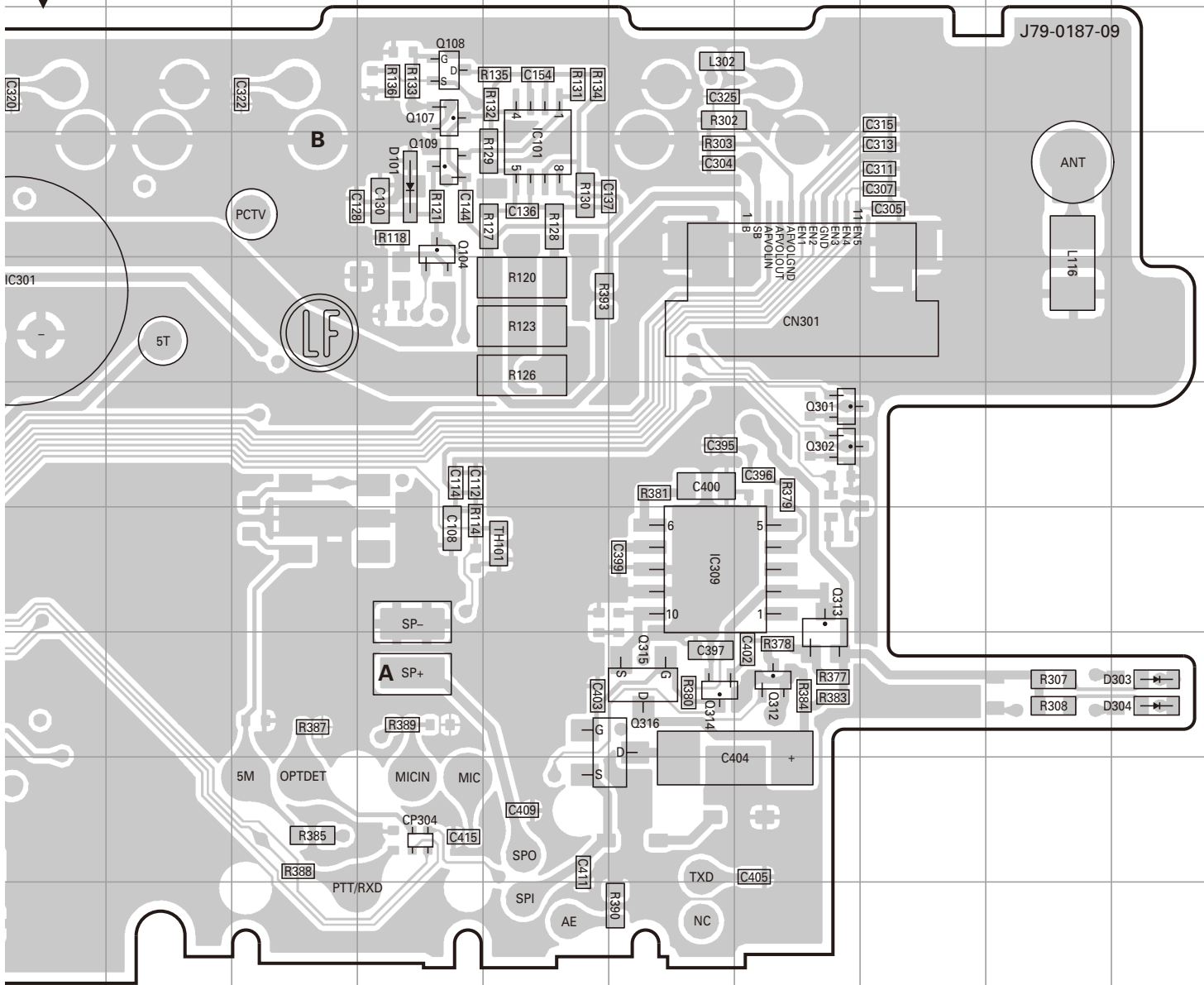


Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	9G	Q104	4M	Q304	6I	Q316	8O
IC101	4N	Q107	3M	Q305	7B	D101	4M
IC301	6B	Q108	3M	Q306	8B	D303	8S
IC303	6H	Q109	4M	Q307	8H	D304	8S
IC305	5C	Q201	5G	Q312	8P		
IC306	7D	Q301	6P	Q313	7P		
IC309	7O	Q302	6P	Q314	8O		
Q1	8H	Q303	5I	Q315	8O		

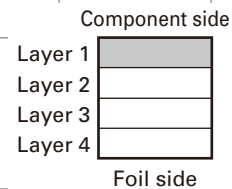


# PC BOARD / PC板 TK-3307

TX-RX UNIT (X57-758X-XX) 0-20: M,X 0-21: M2,C 0-22: X2 0-23: C2 3-01: C6  
 Component side view (J79-0187-09)

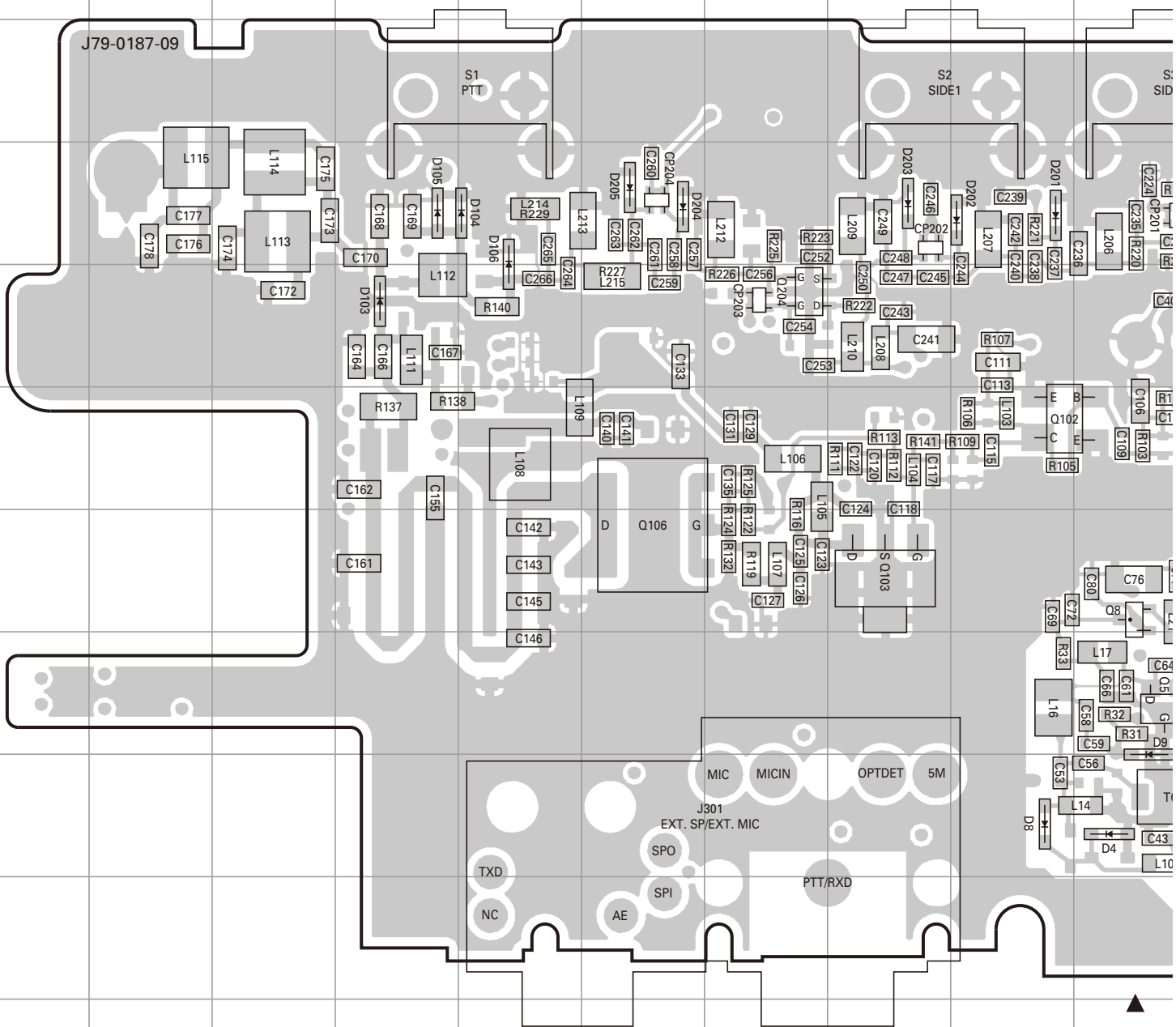


**A:** Green speaker wire soldering position.  
**B:** Brown speaker wire soldering position.



# TK-3307 PC BOARD / PC板

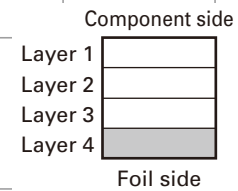
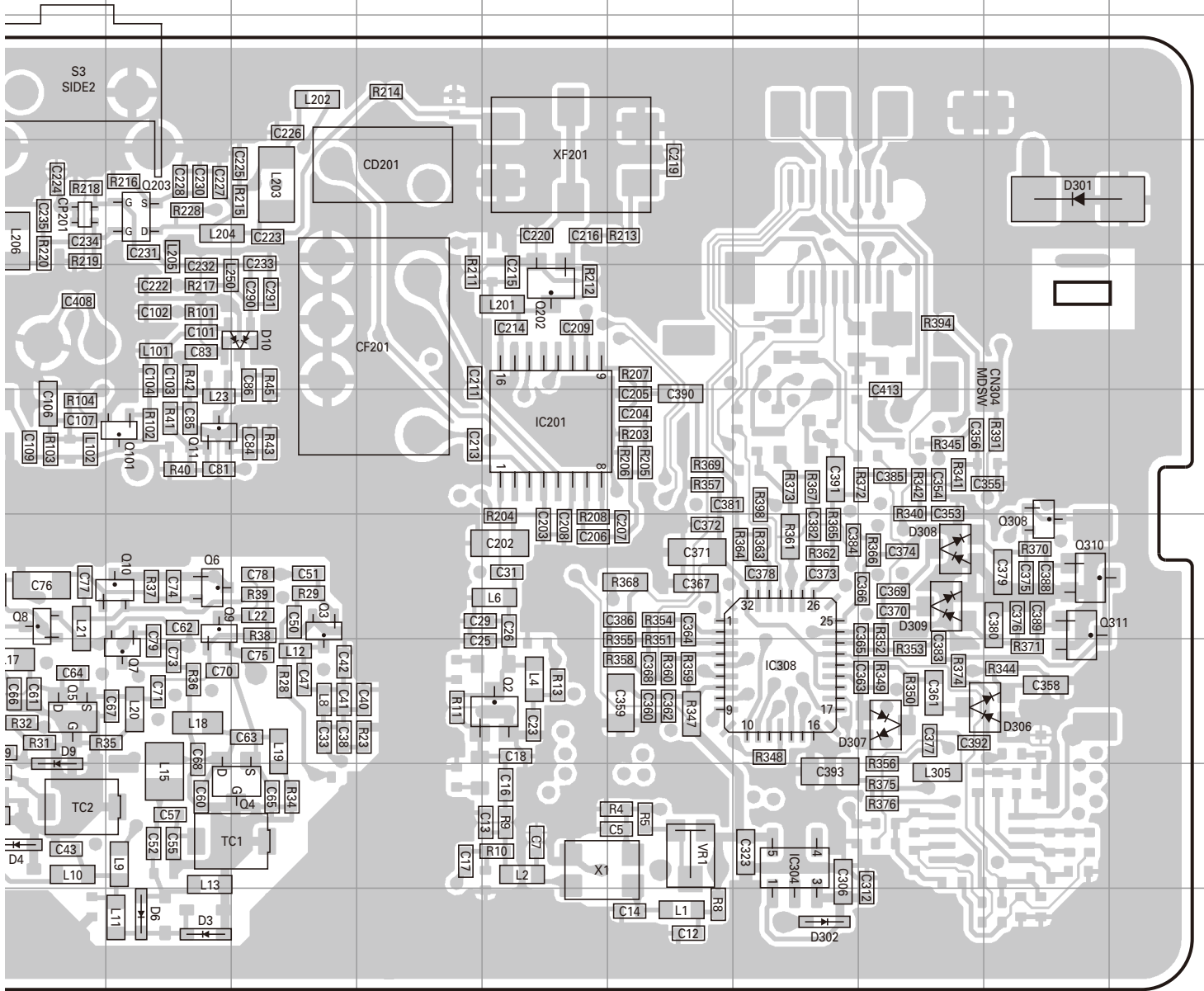
TX-RX UNIT (X57-758X-XX) 0-20: M,X 0-21: M2,C 0-22: X2 0-23: C2 3-01: C6  
 Foil side view (J79-0187-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC201	6N	Q8	7J	Q203	4K	D9	8J	D204	4F
IC304	9P	Q9	7K	Q204	5G	D10	5L	D205	4F
IC308	8P	Q10	7K	Q308	7R	D103	5D	D301	4R
Q2	8N	Q11	6K	Q310	7R	D104	4E	D302	10P
Q3	7L	Q101	6K	Q311	7R	D105	4D	D306	8R
Q4	9L	Q102	6I	D3	10K	D106	4E	D307	8Q
Q5	8J	Q103	7H	D4	9J	D201	4I	D308	7Q
Q6	7K	Q106	7F	D6	10K	D202	4I	D309	7Q
Q7	8K	Q202	5N	D8	9I	D203	4H		

# PC BOARD / PC板 TK-3307

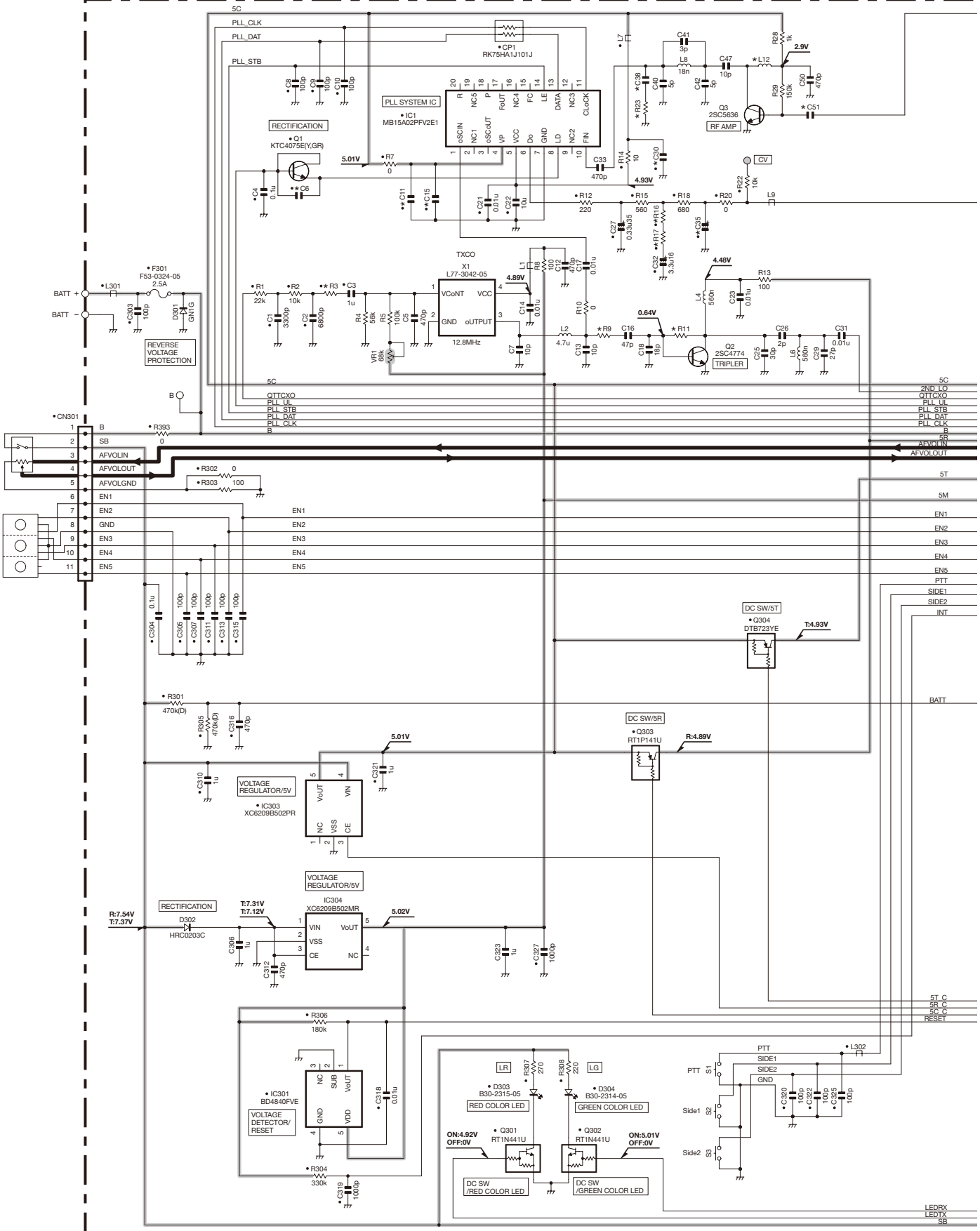
TX-RX UNIT (X57-758X-XX) 0-20: M,X 0-21: M2,C 0-22: X2 0-23: C2 3-01: C6  
 Foil side view (J79-0187-09)



# TK-3307 SCHEMATIC DIAGRAM / 原理图

X57-758X-XX	L12	R3	R9	R11	R16	R17	R23	C6	C11	C15	C30	C35	C38	C51	
0-20	M.X	18n	180k	820	270k	0	1.8k	NO	0.01u	10u	0.01u	470p	0.1u	NO	10p
0-21	M2.C	18n	180k	2.2k	270k	180k	1.2k	NO	0.01u	10u	0.01u	470p	0.1u	NO	10p
0-22	X2	18n	180k	2.2k	330k	180k	1.2k	NO	0.01u	10u	0.01u	100p	0.047u	NO	10p
0-23	C2	18n	150k	820	270k	180k	1.2k	47	470p	470p	470p	470p	0.047u	470p	3p
3-01	C6	33n	82k	820	270k	180k	1.2k	NO	0.01u	10u	0.01u	470p	0.047u	NO	4p

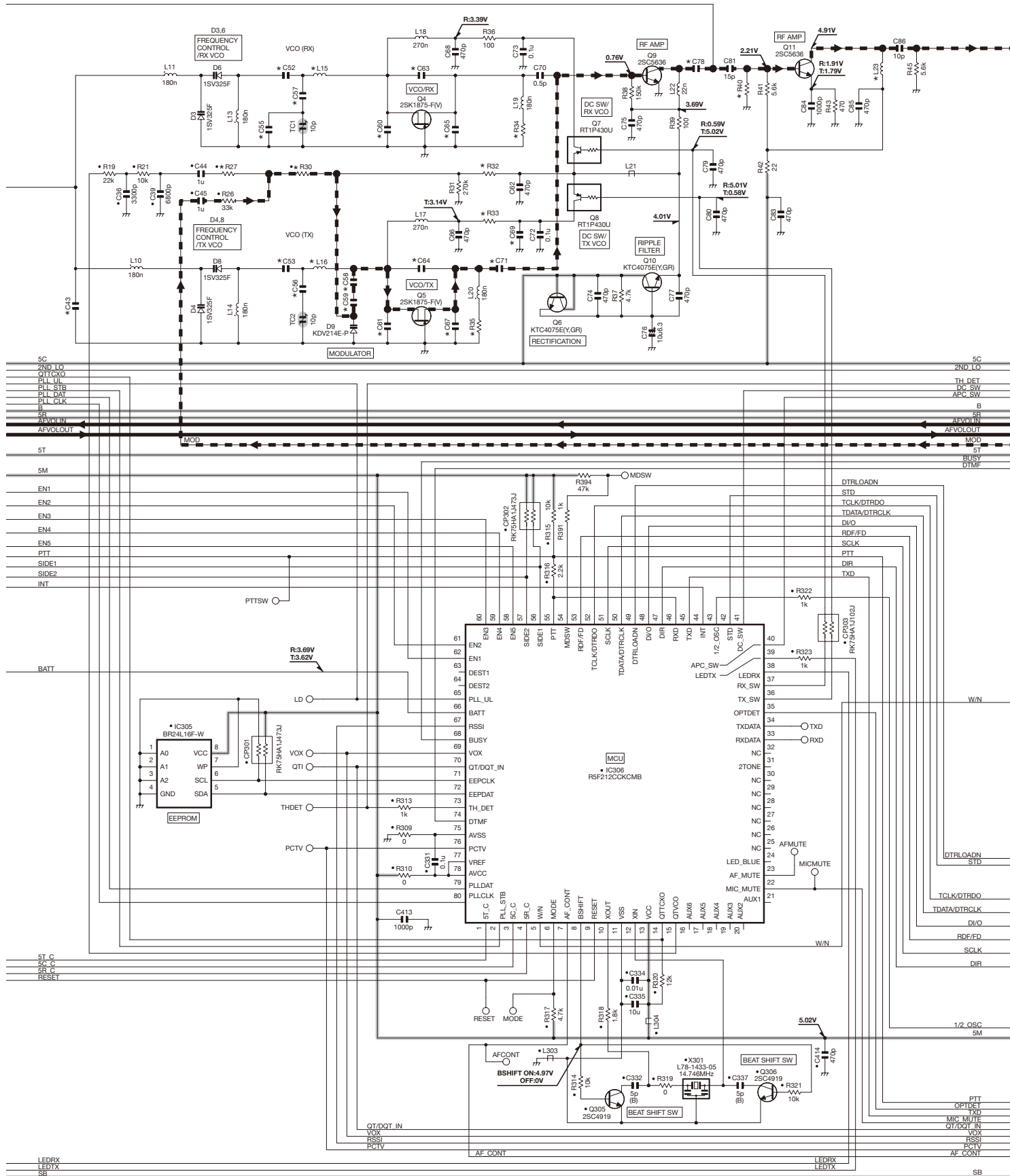
TX-RX UNIT (X57-758X-XX)



# SCHEMATIC DIAGRAM / 原理图 TK-3307

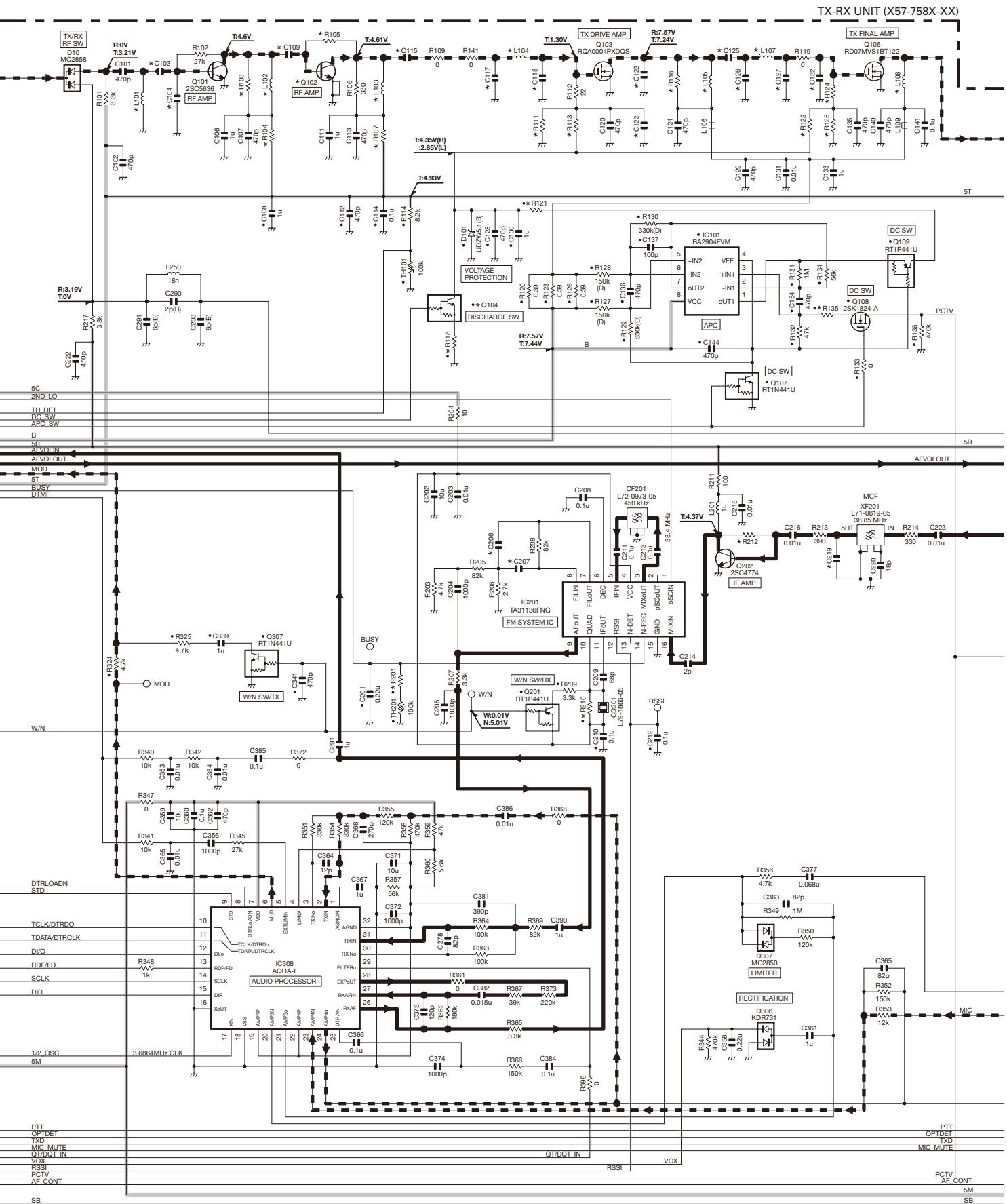
X57-758X-XX	L15	L16	L23	R27	R30	R32	R33	R34	R35	R40	C43	C52	C53	C55	C56	C57	C58	C59	C60	C61	C63	C64	C65	C67	C69	C71	C78	
0-20	MX	27n	18n	22n	680k	27k	470k	100	100	100	4.7k	NO	NO	9p	11p	0.5p	12p	4p	1p	1p	2p	3p	6p	6p	5p	470p	0.5p	33p
0-21	MZ,C	27n	18n	22n	680k	27k	470k	100	100	82	NO	NO	9p	11p	1.5p	12p	5p	1p	1p	2p	3p	6p	6p	5p	NO	0.3p	33p	
0-22	X2	22n	18n	22n	680k	27k	470k	100	180	82	4.7k	NO	11p	8p	NO	8p	9p	1p	1p	3p	3p	5p	4p	4p	NO	0.3p	33p	
0-23	C2	27n	22n	22n	680k	27k	390k	10	100	100	NO	100p	15p	9p	2p	8p	10p	1.5p	1.5p	4p	7p	6p	3.5p	4p	NO	0.3p	30p	
3-01	C6	33n	33n	27n	470k	470k	330k	100	180	150	4.7k	NO	15p	10p	NO	5p	7p	2p	2p	5p	2.5p	5p	6p	2p	5p	NO	0.5p	33p

TX-RX UNIT (X57-758X-XX)



# TK-3307 SCHEMATIC DIAGRAM / 原理图

X57-758-XX	Q102	Q104	L101	L102	L103	L104	L105	L107	L108	R103	R104	R105	R107	R111	R113	R116	R118	R121	R122	R124	R125	R135	R201	R210	R212	C103	C104	C109	C115	C117	C118	C122	C123	C125	C126	C127	C132	C206	C207	C219	
0-20	M.X	2SC4928YD	NO	18n	39n	15n	8.2n	22n	2.7n	2T	330	47	27k	56	39k	100k	330	NO	10k	27k	22	68k	180k	82k	3.9k	220k	30p	4p	6p	11p	11p	NO	NO	NO	10p	11p	16p	NO	560p	560p	1p
0-21	M.C	2SC455-A	NO	18n	33n	15n	8.2n	22n	2.7n	2T	330	56	33k	68	39k	100k	330	NO	12k	27k	22	68k	100k	82k	3.9k	220k	30p	4p	6p	11p	NO	NO	NO	10p	10p	16p	NO	680p	680p	1p	
0-22	X2	2SC455-A	RT1N441U	18n	39n	22n	3.3n	22n	8.2n	3T	330	47	27k	56	39k	100k	330	O	4.7k	27k	22	68k	100k	82k	3.9k	180k	12p	NO	6p	2p	2p	NO	1u	NO	10p	6p	18p	68p	560p	560p	1p
0-23	X2	2SC455-A	RT1N441U	18n	27n	18n	8.2n	4.7n	2.2n	2T	330	39	18k	39	47k	100k	NO	330	15k	68k	100	68k	100k	180k	4.7k	220k	12p	15p	18p	9p	1u	0.5p	15p	NO	10p	16p	NO	560p	560p	1p	
3-01	C6	2SC455-A	RT1N441U	22n	56n	18n	18n	68n	33n	2T	NO	68	18k	82	47k	150k	NO	470	12k	22k	22	47k	100k	180k	3.9k	220k	12p	NO	16p	7p	NO	NO	NO	NO	82p	NO	560p	560p	1p		

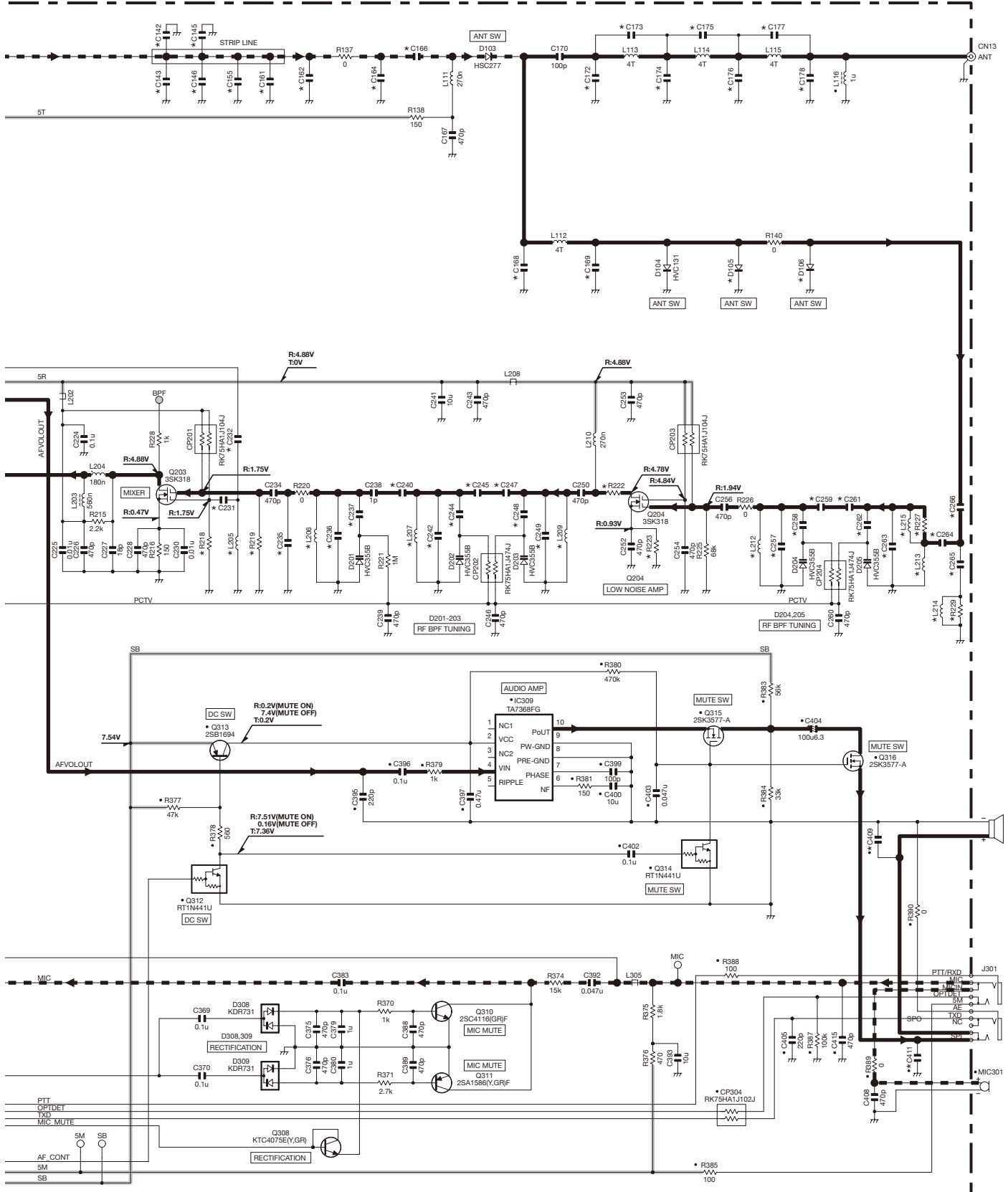


# SCHEMATIC DIAGRAM / 原理图 TK-3307

X57-758X-XX	L205	L206	L207	L209	L212	L213	L214	L215	R218	R219	R222	R223	R227	R229	C142	C143	C145	C146	C155	C161	C162	C164	C166	C168	C169	C172	C173	C174	C175	C176	C177	C178
0-20	M.X	27n	8.2n	8.2n	8.2n	8.2n	47n	NO	56k	56k	22	220	0	NO	43p	NO	NO	12p	NO	1p	2p	NO	6p	4p	2.5p	3p	0.5p	5p	2p	5p	2p	3p
0-21	M2.C	27n	8.2n	8.2n	8.2n	8.2n	47n	NO	56k	56k	22	330	0	NO	43p	NO	NO	12p	NO	1p	2p	NO	6p	4p	2.5p	3p	0.5p	6p	2p	6p	2.5p	4p
0-22	X2	27n	8.2n	8.2n	8.2n	8.2n	3.9n	NO	3.9n	56k	56k	22	220	0	NO	30p	1p	NO	NO	NO	1p	NO	5p	2.5p	4p	6p	NO	11p	NO	7p	0.5p	2p
0-23	X2	33n	8.2n	8.2n	8.2n	8.2n	47n	NO	82k	56k	15	120	0	NO	47p	NO	36p	NO	0.3p	1.5p	NO	3p	7p	4p	2.5p	1p	0.5p	10p	NO	10p	0.3p	6p
3-01	C6	47n	12n	12n	12n	12n	68n	NO	56k	68k	22	220	0	NO	56p	NO	NO	47p	NO	NO	11p	0.3p	22p	9p	3.5p	3p	NO	13p	NO	16p	NO	13p

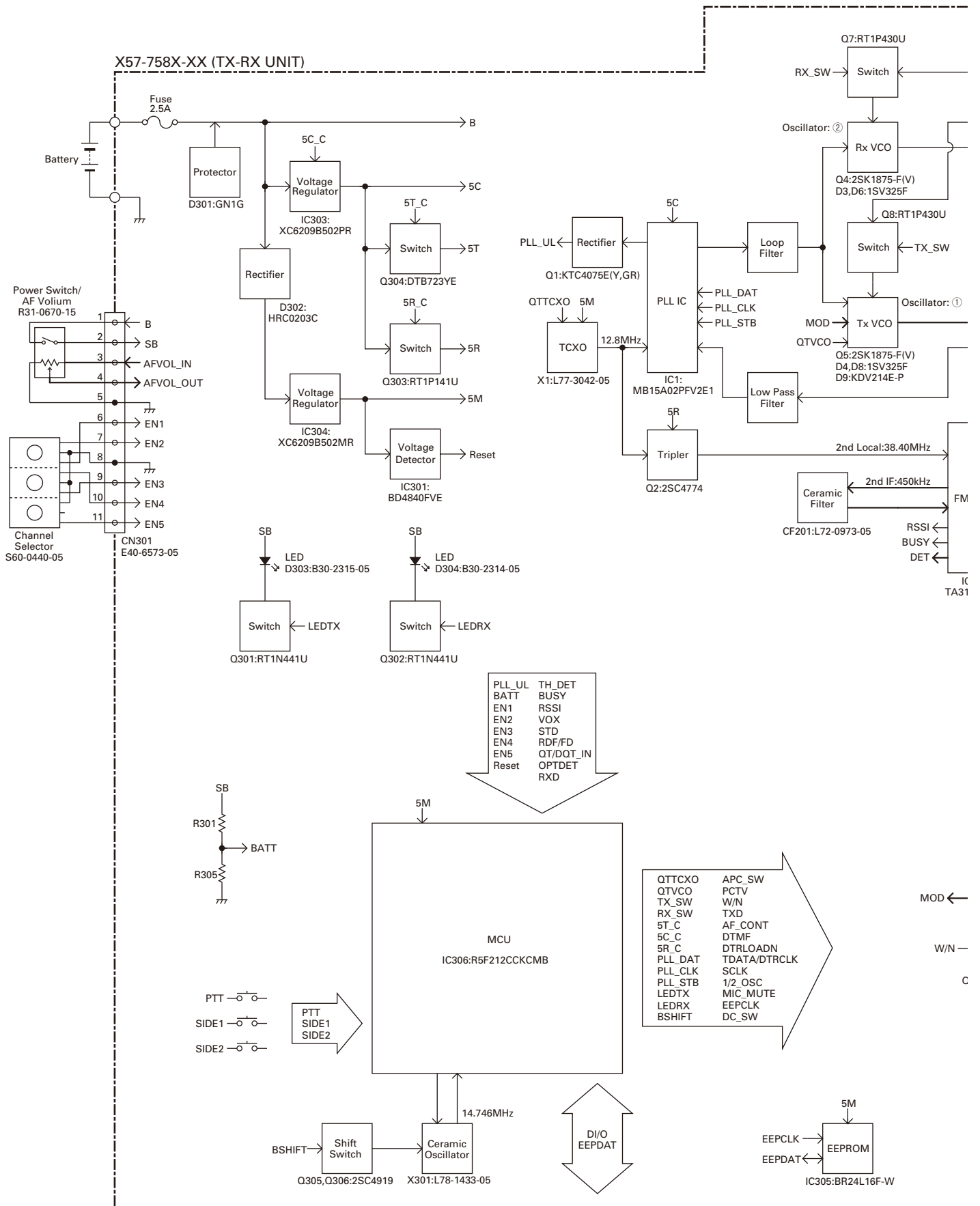
X57-758X-XX	C231	C232	C235	C236	C237	C240	C242	C244	C245	C247	C248	C249	C257	C258	C259	C261	C262	C263	C264	C265	C266	C409	C411	D105	D106	
0-20	M.X	470p	3.5p	NO	4p	22p	2p	6p	22p	1p	2p	22p	4p	3.5p	22p	2p	3p	22p	1p	3.5p	3p	5p	470p	470p	HVC131	NO
0-21	M2.C	470p	3.5p	NO	4.5p	22p	2p	6p	22p	1p	2p	22p	4.5p	3.5p	22p	2p	2.5p	22p	1p	3.5p	3.5p	5p	470p	470p	HVC131	NO
0-22	X2	470p	4p	NO	2.5p	30p	1.5p	4p	30p	0.75p	2p	30p	3p	2.5p	30p	1.5p	30p	2p	22p	8p	6p	NO	NO	HVC131	NO	
0-23	C2	1000p	3.5p	0.75p	7p	27p	4p	8p	27p	1p	4p	27p	8p	8p	22p	1.5p	2p	22p	6p	2p	5p	7p	470p	NO	NO	HVC131
3-01	C6	470p	3p	NO	5p	22p	2p	5p	27p	2p	2.5p	27p	5p	3p	27p	2p	2.5p	27p	3p	3p	4p	6p	NO	NO	HVC131	

TX-RX UNIT (X57-758X-XX)



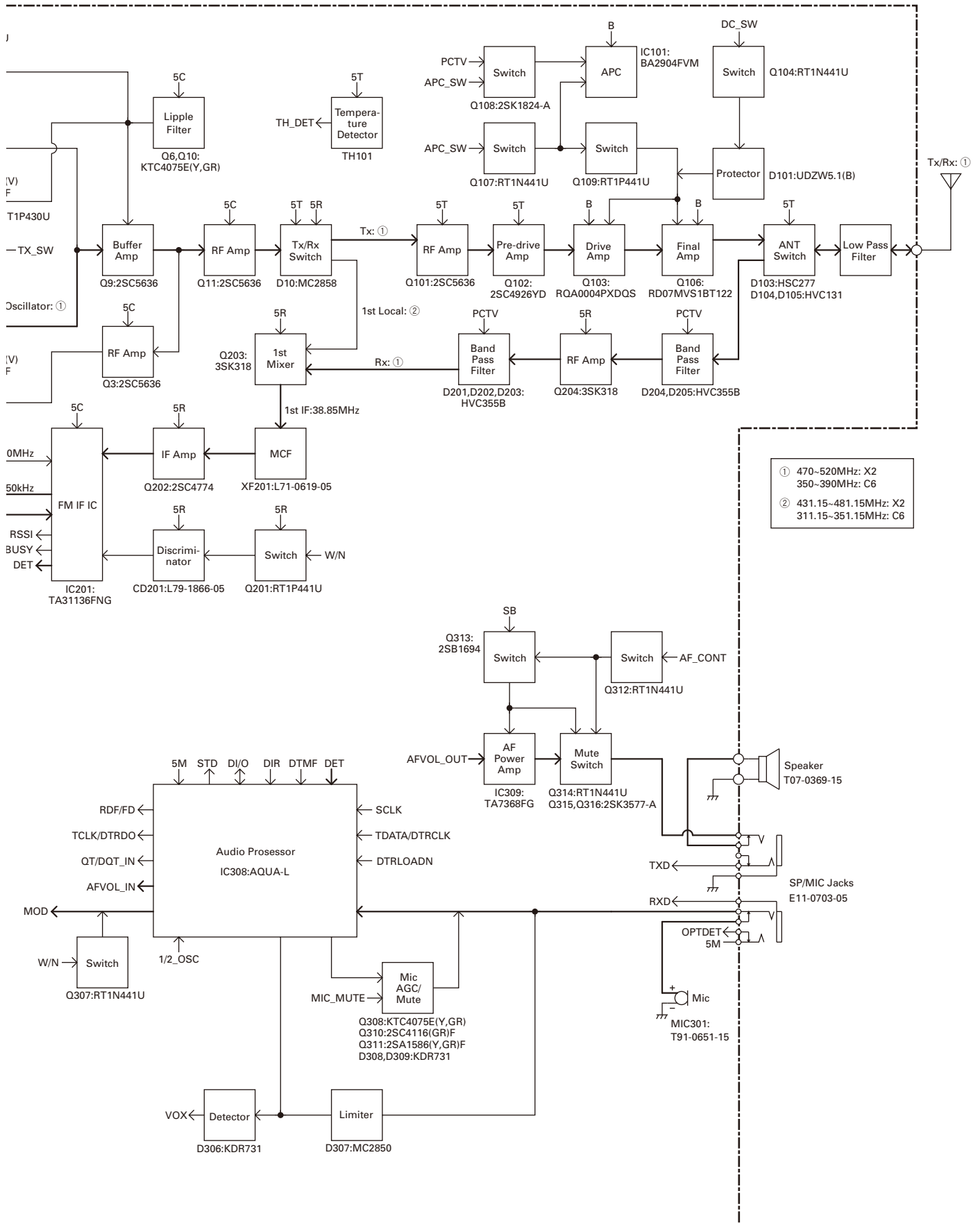
Note : The components marked with a dot (•) are parts of layer 1.

## BLOCK DIAGRAM / 方块图

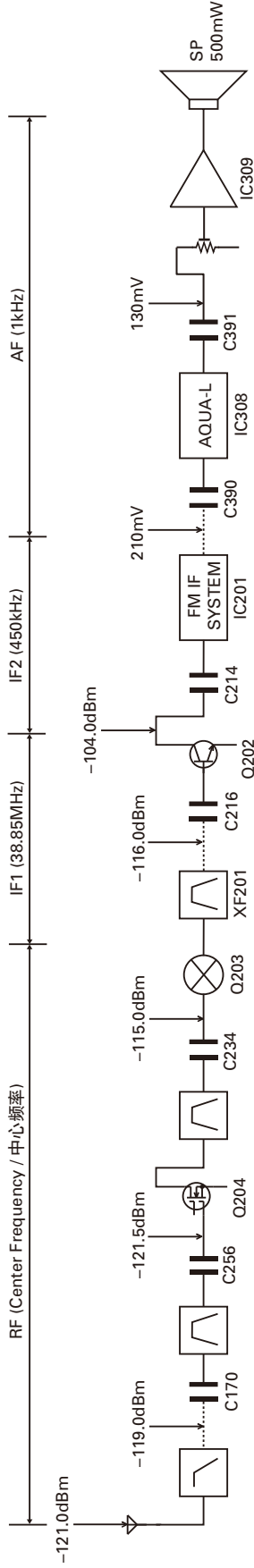




## BLOCK DIAGRAM / 方块图



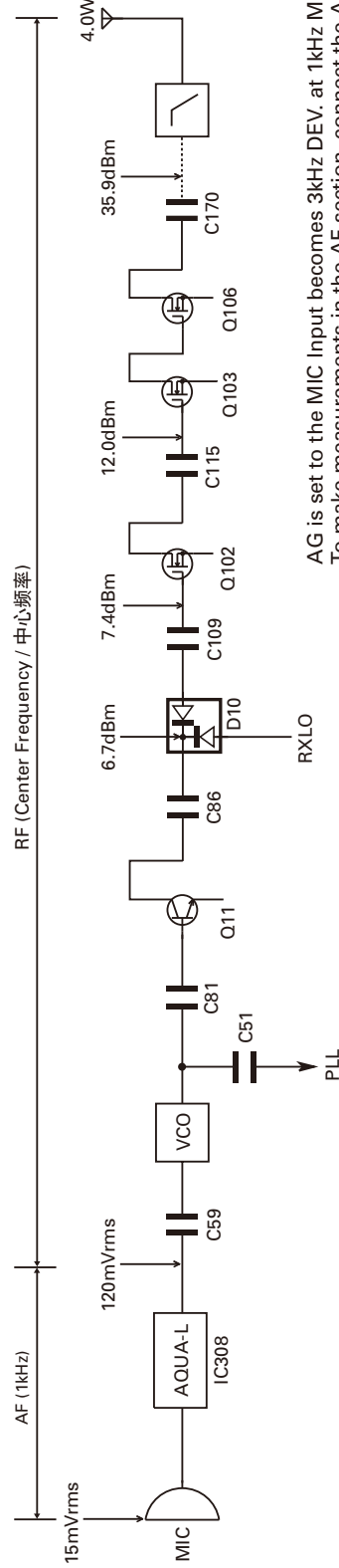
### Receiver Section / 接收部分



To make measurements in the AF section, connect the AC level meter.  
 (ANT input: -53dBm, 1kHz FM, 3kHz DEV (WIDE).)  
 In the RF section, use 470pF coupling capacitor.  
 (The display shows the SSG input value required to obtain 12dB SINAD without Local Level.)

如要在AF 部测量, 则连接AC电平表。  
 (天线输入: -53dBm, 1kHz FM, 3kHz DEV (宽))  
 如要在RF 部测量, 请使用470pF耦合电容器。  
 (图中显示了获得12dB SINAD 所需的SSG输入值, 没有本地电平。)

### Transmitter Section / 发射部分



AG is set to the MIC Input becomes 3kHz DEV. at 1kHz MOD. (WIDE).  
 To make measurements in the AF section, connect the AC level meter.  
 In the RF section, use 470pF coupling capacitor.

AG 被设置成话筒输入得到3kHz DEV在1kHz MOD(宽)。  
 如要在AF部测量, 则连接AC电平表。  
 如要在RF部测量, 请使用470pF耦合电容器。

## SPECIFICATIONS

### General

Frequency Range.....	470~520MHz (X2) / 350~390MHz (C6)
Number of channels .....	Max. 16
Channel Spacing .....	25kHz (Wide) / 12.5kHz (Narrow)
PLL Channel Stepping .....	5kHz, 6.25kHz
Operating Voltage .....	7.5 V DC±20%
Battery Life .....	More than 18 hours at 4 watts (5-5-90 duty cycle with KNB-45L battery)
Operating Temperature range .....	-30°C to +60°C (-22°F to +140°F)
Frequency Stability .....	±2.5ppm (-30°C to +60°C)
Channel Frequency Spread.....	50MHz (X2) / 40MHz (C6)
Dimensions and Weight (Dimensions not including protrusions)	
Radio Only .....	160g (5.6oz)
With KNB-45L (2000mAh battery) .....	54 (2.13) W x 122 (4.8) H x 33.8 (1.33) D mm (inches)
	280g (9.9oz)

### Receiver (Measurements made per TIA/EIA-603)

Sensitivity	
EIA 12dB SINAD.....	0.25µV (Wide) / 0.28µV (Narrow)
Selectivity .....	70dB (Wide) / 60dB (Narrow)
Intermodulation .....	65dB (Wide) / 60dB (Narrow)
Spurious response.....	60dB
Audio Power Output.....	500mW at 4Ω less than 10% distortion

### Transmitter (Measurements made per TIA/EIA-603)

RF Power Output.....	4W/1W
Spurious and Harmonics.....	65dB
Modulation.....	16K0F3E (Wide) / 11K0F3E (Narrow)
FM Noise .....	45dB (Wide) / 40dB (Narrow)
Audio Distortion.....	Less than 5%

## 规 格

## 概 述

频率范围.....	470~520MHz (X2) / 350~390MHz (C6)
频道数.....	最大 16
信道间距.....	25kHz (宽) / 12.5kHz (窄)
PLL 频道步进.....	5kHz, 6.25kHz
电池电压.....	7.5V 直流 ±20%
电池寿命.....	4W 时长于 18 个小时 (使用 KNB-45L 电池 5-5-90 工作周期) 4W 时长于 9 个小时 (使用 KNB-30A 电池 5-5-90 工作周期)
温度范围.....	-30°C 到 +60°C (-22 °F 到 +140 °F)
频率稳定性.....	±2.5ppm (-30°C 到 +60°C)
信道频率扩展.....	50MHz (X2) / 40MHz (C6)
尺寸和重量 (尺寸大小不包括突出部分)	
仅对讲机时.....	160g (5.6oz)
带有 KNB-45L (2000mAh 电池).....	54 (2.13) 宽 × 122 (4.8) 高 × 33.8 (1.33) 长 mm (英寸) 280g (9.9oz)

## 接收部 (根据 TIA/EIA-603 进行测量)

灵敏度	
EIA 12dB SINAD.....	0.25µV (宽) / 0.28µV (窄)
选择性.....	70dB (宽) / 60dB (窄)
互调.....	65dB (宽) / 60dB (窄)
假信号响应.....	60dB
音频功率输出.....	4Ω 时为 500mW, 失真小于 10%

## 发射部 (根据 TIA/EIA-603 进行测量)

射频功率输出.....	4W/1W
假信号和谐波.....	65dB
调制.....	16K0F3E (宽) / 11K0F3E (窄)
FM 噪音.....	45dB (宽) / 40dB (窄)
音频失真.....	低于 5%

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(A.C.N. 001 499 074)

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Unit 3712-3724, Level 37, Tower one Metroplaza, 223 Hing Fong Road,  
Kwai Fong, N.T., Hong Kong

## Kenwood Electronics Singapore Pte Ltd

1 Ang Mo Kio Street 63, Singapore 569110

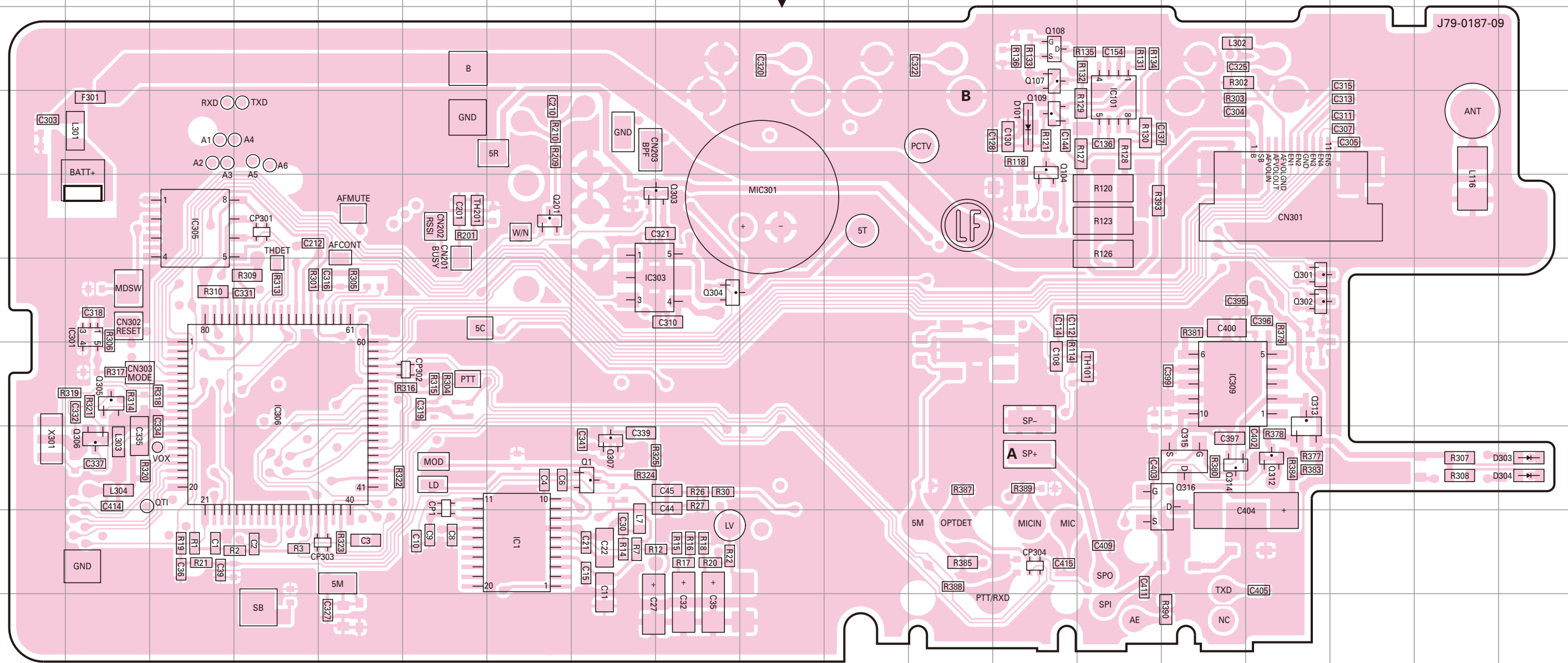


# TK-3307 PC BOARD / PC板

# PC BOARD / PC板 TK-3307

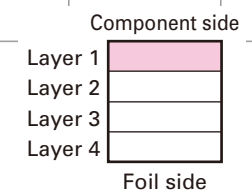
TX-RX UNIT (X57-758X-XX) 0-20: M,X 0-21: M2,C 0-22: X2 0-23: C2 3-01: C6  
Component side view (J79-0187-09)

TX-RX UNIT (X57-758X-XX) 0-20: M,X 0-21: M2,C 0-22: X2 0-23: C2 3-01: C6  
Component side view (J79-0187-09)



**A: Green speaker wire soldering position.**  
**B: Brown speaker wire soldering position.**

Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC1	9G	Q104	4M	Q304	6I	Q316	8O
IC101	4N	Q107	3M	Q305	7B	D101	4M
IC301	6B	Q108	3M	Q306	8B	D303	8S
IC303	6H	Q109	4M	Q307	8H	D304	8S
IC305	5C	Q201	5G	Q312	8P		
IC306	7D	Q301	6P	Q313	7P		
IC309	7O	Q302	6P	Q314	8O		
Q1	8H	Q303	5I	Q315	8O		

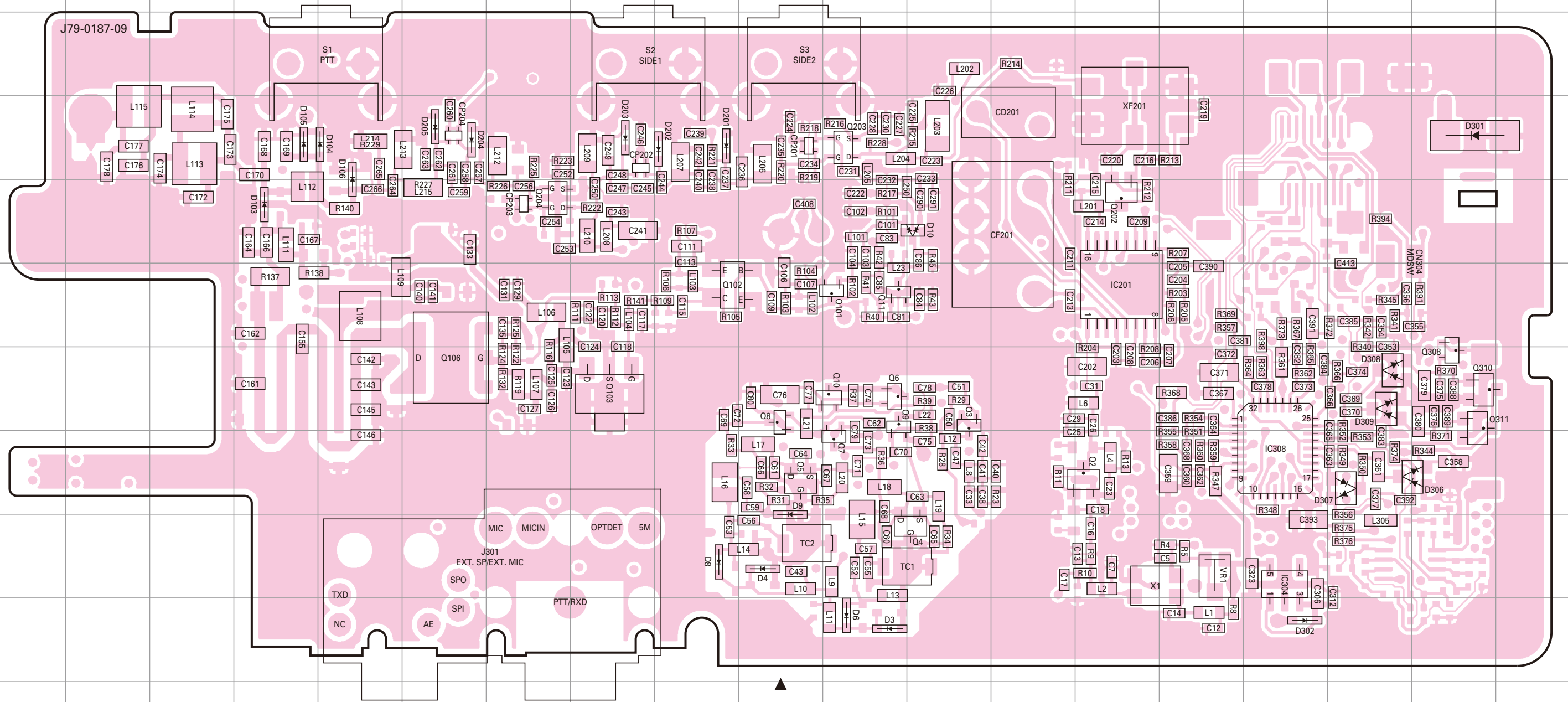


# TK-3307 PC BOARD / PC板

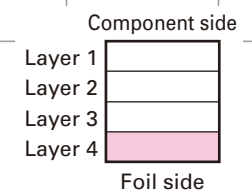
# PC BOARD / PC板 TK-3307

TX-RX UNIT (X57-758X-XX) 0-20: M,X 0-21: M2,C 0-22: X2 0-23: C2 3-01: C6  
Foil side view (J79-0187-09)

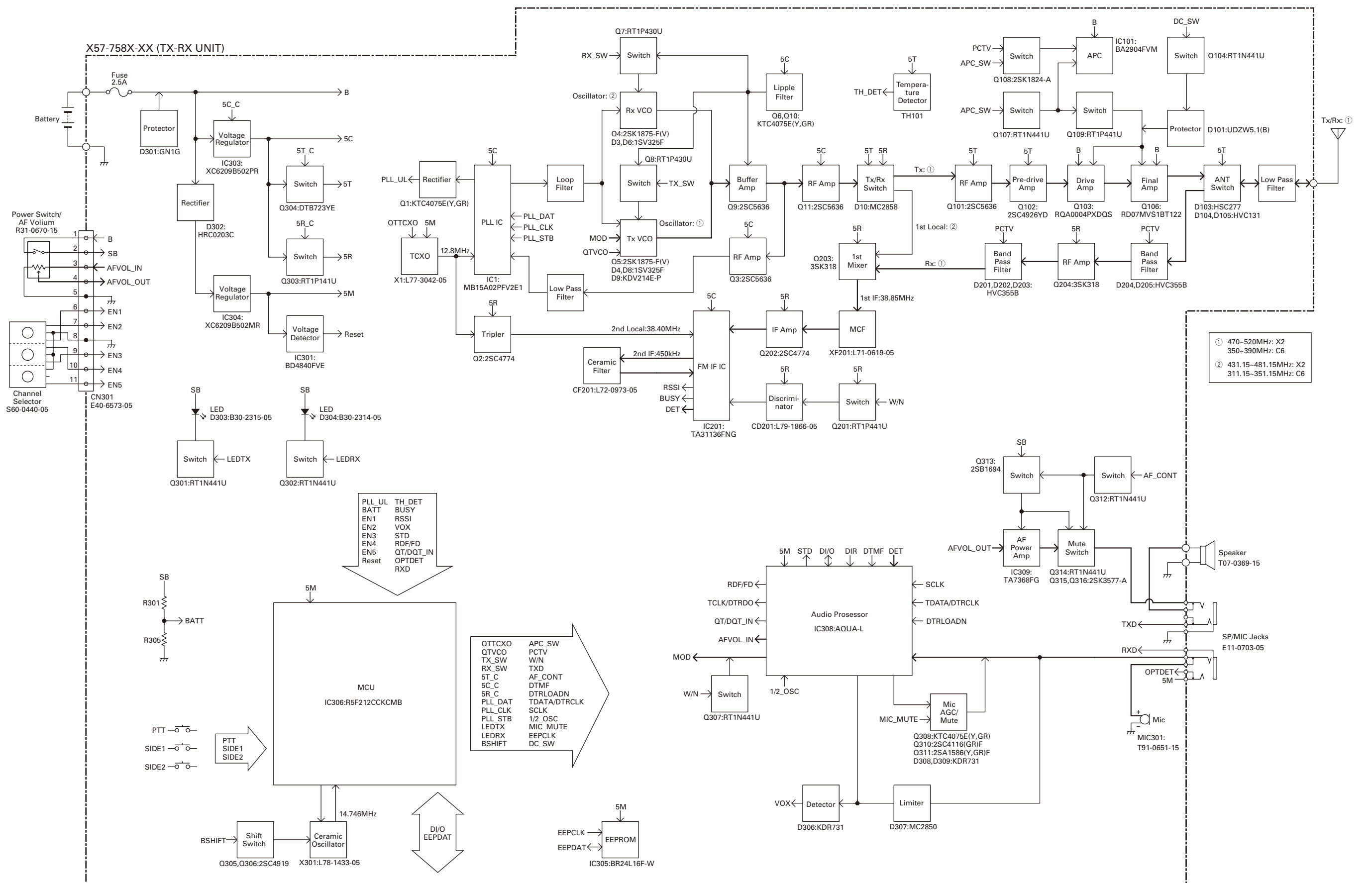
TX-RX UNIT (X57-758X-XX) 0-20: M,X 0-21: M2,C 0-22: X2 0-23: C2 3-01: C6  
Foil side view (J79-0187-09)



Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address	Ref. No.	Address
IC201	6N	Q8	7J	Q203	4K	D9	8J	D204	4F
IC304	9P	Q9	7K	Q204	5G	D10	5L	D205	4F
IC308	8P	Q10	7K	Q308	7R	D103	5D	D301	4R
Q2	8N	Q11	6K	Q310	7R	D104	4E	D302	10P
Q3	7L	Q101	6K	Q311	7R	D105	4D	D306	8R
Q4	9L	Q102	6I	D3	10K	D106	4E	D307	8Q
Q5	8J	Q103	7H	D4	9J	D201	4I	D308	7Q
Q6	7K	Q106	7F	D6	10K	D202	4I	D309	7Q
Q7	8K	Q202	5N	D8	9I	D203	4H		







- ① 470~520MHz: X2  
350~390MHz: C6
- ② 431.15~481.15MHz: X2  
311.15~351.15MHz: C6