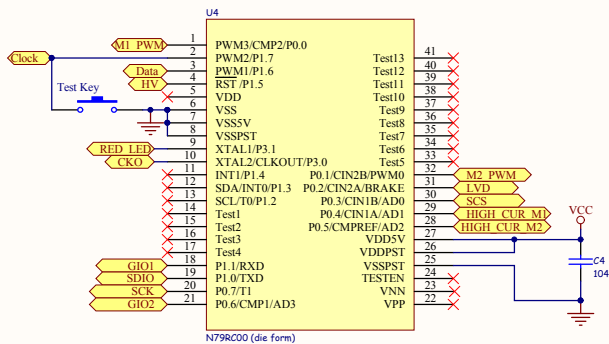
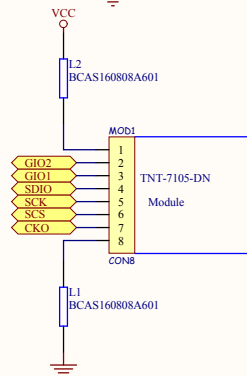
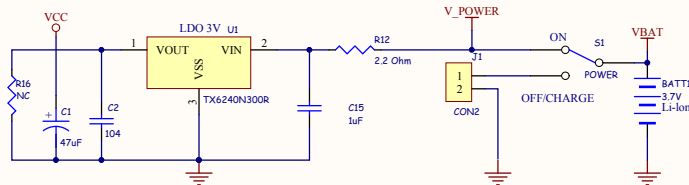
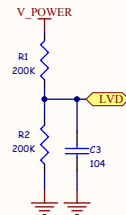
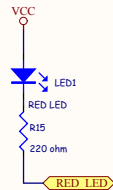
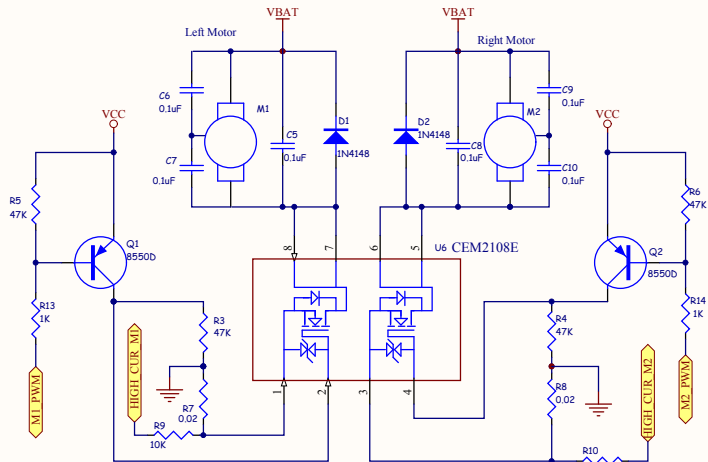




Standard Common part for master

Capacitor (1st priority)		
No:	Part Value	Qty for update SCH
1	10PF chip 50v +80-20% SMD 0603	
2	20pF chip 50v +80-20% SMD 0603	
3	25pF chip 50v +80-20% SMD 0603	
4	1000pF chip 50v +80-20% SMD 0603	
5	0.1uF chip 50V +80-20% Y5V, 50V SMD0603	
6	0.1uF 25V +80-20% Y5V, PKG: Ceramic dia 6mm x 3.5	
7	0.033uF 25V Y5V, PKG: dia 4mm x 3.5	
8	10uF 25V +/-20% AL EL PKG: 5x11mm	
9	47uF 25V +/-20% AL EL PKG: 5x11mm	
10	100uF 25V +/-20% AL EL PKG: 5x11mm	
	220uF 25V +/-20% AL EL PKG: 5x11mm	
Resistor:		
1	10 ohm +/-5% 0603	
2	100 ohm +/-5% 0603	
3	1K ohm +/-5% 0603	
4	4.7Kohm +/-5% 0603	
5	10k ohm +/-5% 0603	
6	47k ohm +/-5% 0603	
7	100kohm +/-5% 0603	
8	220k ohm +/-5% 0603	
9	1M ohm +/-5% 0603	
10	2.2M ohm +/-5% 0603	
Diode:		
1	IN4001PKG: DO-41 50V	
2	IN4148 PKG: DO-35 50V	
Transistor		
1	S8050NPN (1.5A) SOT-23 V: 40; W: 0.3;	
2	S8550D PNP(1.5A) SOT-23 V: 40; W: 0.3;	
3	S9014D NPN(1.5A) SOT-23 V: 40; W: 0.3;	
4	B772 PNP A: 3; V: 40; Max. W: 1.25; PKG: TO-126;	
5	D882 NPN A: 3; V: 40; Max. W: 1.25; PKG: TO-126;	
Inductor		
1	Choke Coil DESC: 5.6uH 10% 1/2W	
PTC		
1	MF-R400-0-99	
Diode:		
1	IN5817: DO-41 50V	

Non Standard parts Guide Line (2nd priority)
Using E3 value for resistor, capacitor and inductor

Non Standard parts Guide Line (3rd priority)
Using E6 value for resistor, capacitor and inductor

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Size: A3	Project Number: BGK77	Project Name: FLYING RACER (PLANE)	Revision: B
Date: 4/23/2014	MAPS Engineer: CHIN	Sheet: 1 of 1	
File: BGK77 RX SCHEMATIC B.SchDoc	DrawnBy: XiaoXingHua		

2.4GHz Module Circuit

The schematic diagram illustrates the 2.4GHz module circuit, centered around the A7105 IC. The circuit includes the following components and connections:

- Antenna:** Connected to the RF input (RFI) of the A7105 IC via a series of capacitors (C17, C18, C19) and inductors (L5, L4).
- Power and Ground:** The A7105 IC has multiple power and ground pins. VDDA1 (pin 20) and VDDA2 (pin 5) are connected to the VDDA supply. VDDA3 (pin 10) is connected to the VDDA supply. Ground pins (GND, GND1, GND2, GND3, GND4, GND5, GND6, GND7, GND8, GND9, GND10, GND11, GND12, GND13, GND14, GND15, GND16, GND17, GND18, GND19, GND20, GND21, GND22, GND23, GND24, GND25, GND26, GND27, GND28, GND29, GND30, GND31, GND32, GND33, GND34, GND35, GND36, GND37, GND38, GND39, GND40, GND41, GND42, GND43, GND44, GND45, GND46, GND47, GND48, GND49, GND50, GND51, GND52, GND53, GND54, GND55, GND56, GND57, GND58, GND59, GND60, GND61, GND62, GND63, GND64, GND65, GND66, GND67, GND68, GND69, GND70, GND71, GND72, GND73, GND74, GND75, GND76, GND77, GND78, GND79, GND80, GND81, GND82, GND83, GND84, GND85, GND86, GND87, GND88, GND89, GND90, GND91, GND92, GND93, GND94, GND95, GND96, GND97, GND98, GND99, GND100) are connected to ground.
- RF and Data:** The A7105 IC has RF pins (RFI, RFO, RFI1, RFI2, RFI3, RFI4, RFI5, RFI6, RFI7, RFI8, RFI9, RFI10, RFI11, RFI12, RFI13, RFI14, RFI15, RFI16, RFI17, RFI18, RFI19, RFI20, RFI21, RFI22, RFI23, RFI24, RFI25, RFI26, RFI27, RFI28, RFI29, RFI30, RFI31, RFI32, RFI33, RFI34, RFI35, RFI36, RFI37, RFI38, RFI39, RFI40, RFI41, RFI42, RFI43, RFI44, RFI45, RFI46, RFI47, RFI48, RFI49, RFI50, RFI51, RFI52, RFI53, RFI54, RFI55, RFI56, RFI57, RFI58, RFI59, RFI60, RFI61, RFI62, RFI63, RFI64, RFI65, RFI66, RFI67, RFI68, RFI69, RFI70, RFI71, RFI72, RFI73, RFI74, RFI75, RFI76, RFI77, RFI78, RFI79, RFI80, RFI81, RFI82, RFI83, RFI84, RFI85, RFI86, RFI87, RFI88, RFI89, RFI90, RFI91, RFI92, RFI93, RFI94, RFI95, RFI96, RFI97, RFI98, RFI99, RFI100) and data pins (SDIO, SCK, SCS).
- Crystal and Oscillator:** A crystal (Y1) is connected to the XO pin (pin 9) of the A7105 IC. The crystal is connected to ground via capacitors (C13, C14) and inductors (L3, L4).
- Resistors and Capacitors:** Various resistors (R1, R2) and capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C15, C16, C17, C18, C19) are used for biasing, matching, and decoupling.

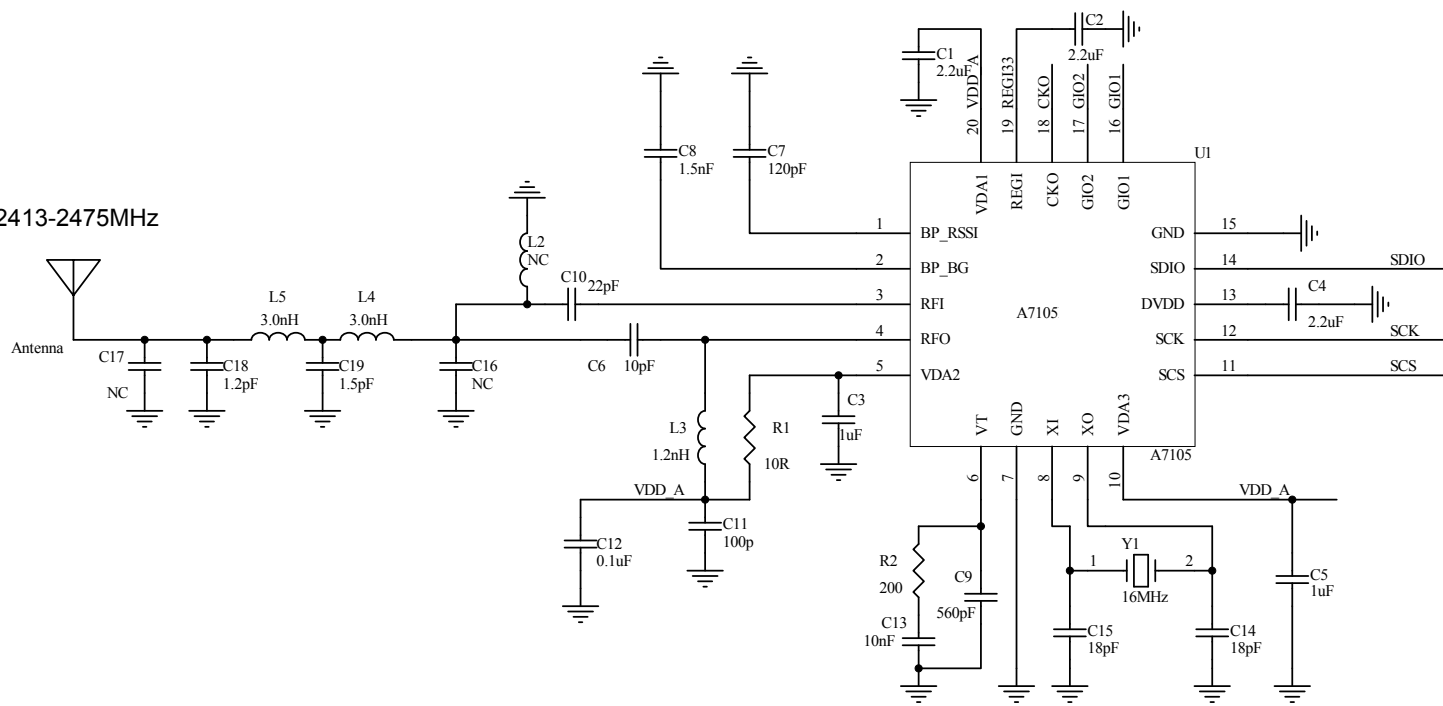
Component Values:

- Capacitors: C1, C2, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19.
- Inductors: L1, L2, L3, L4, L5.
- Resistors: R1, R2.
- Crystal: Y1 (16MHz).

Pin Connections:

- Pin 1: BP_RSSI
- Pin 2: BP_BG
- Pin 3: RFI
- Pin 4: RFO
- Pin 5: VDDA2
- Pin 6: VT
- Pin 7: GND
- Pin 8: XI
- Pin 9: XO
- Pin 10: VDDA3
- Pin 11: SCS
- Pin 12: SCK
- Pin 13: DVDD
- Pin 14: SDIO
- Pin 15: GND
- Pin 16: GIO1
- Pin 17: GIO2
- Pin 18: CKO
- Pin 19: REG13
- Pin 20: VDDA1

2413-2475MHz



Title				<i>TNT-7105 S</i>			
Size		Number			Revision		
A4							
Date:		10-Apr-2014			Sheet of		
File:		D:\项目文件\A7105\remote control plane\TNT-7105			SCH.DDB		