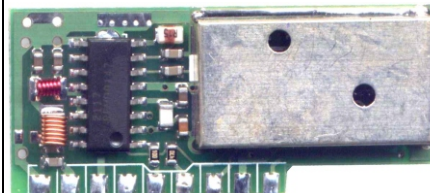


**Transmitter Module : TWS-4HIP (400-500MHz)****HI POWER 2W Transmitter**

- *Frequency Range:400~ 500 MHz
- *Modulate Mode:ASK
- *Circuit Shape:PLL
- *Data Rate:8kbps
- *Power Output: 32db
- *Supply Voltage: 3.5 V
- *Power Supply and All Input / Output Pins:-0.3 to 3.6 V
- *Non-Operating Case Temperature:G-10 to +85 ºC
- *Soldering Temperature (10 Seconds) :230 ºC (10 Seconds)
- *Simple To Apply with Low External Count
- *High Sensitivity Passive Design.



Single 3V to 3.6V Supply
Up to 2W CW Output Power
>50% Efficiency

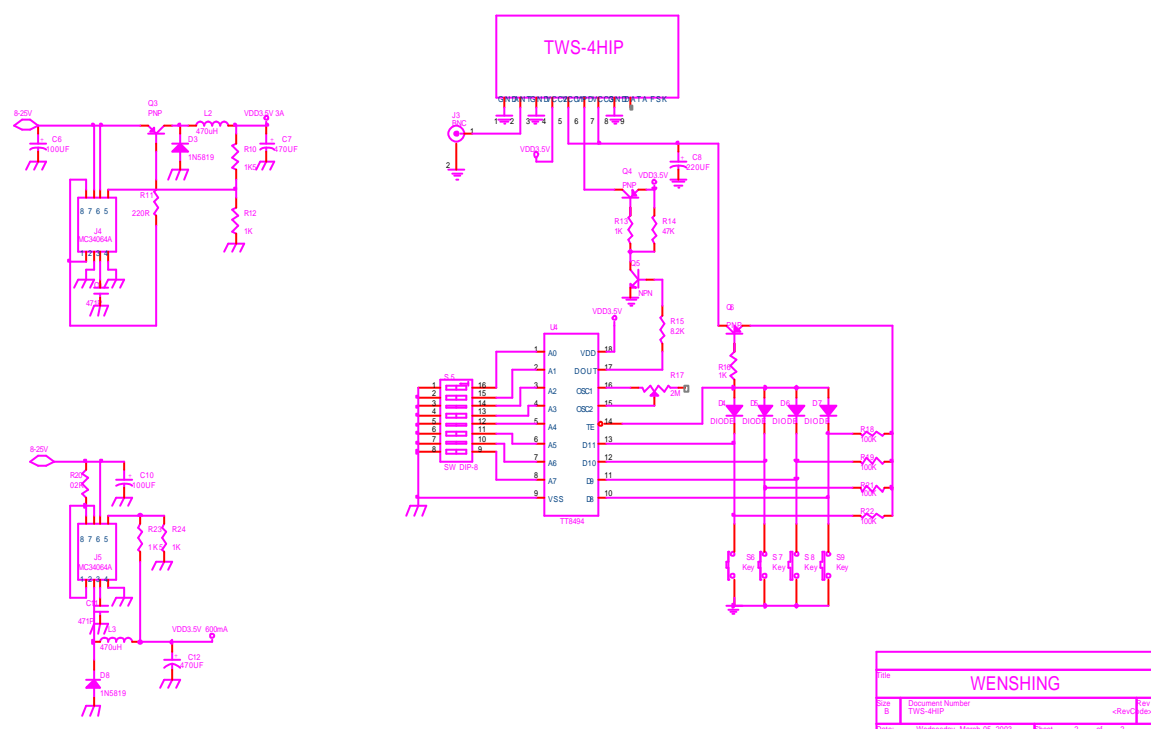
Applications:

● Remote control systems	● UHF wireless data transmitters
● 433.9MHz ISM	● Remote metering
● Wireless Security Systems	● Wireless LANs
● Analog Communication Systems	●

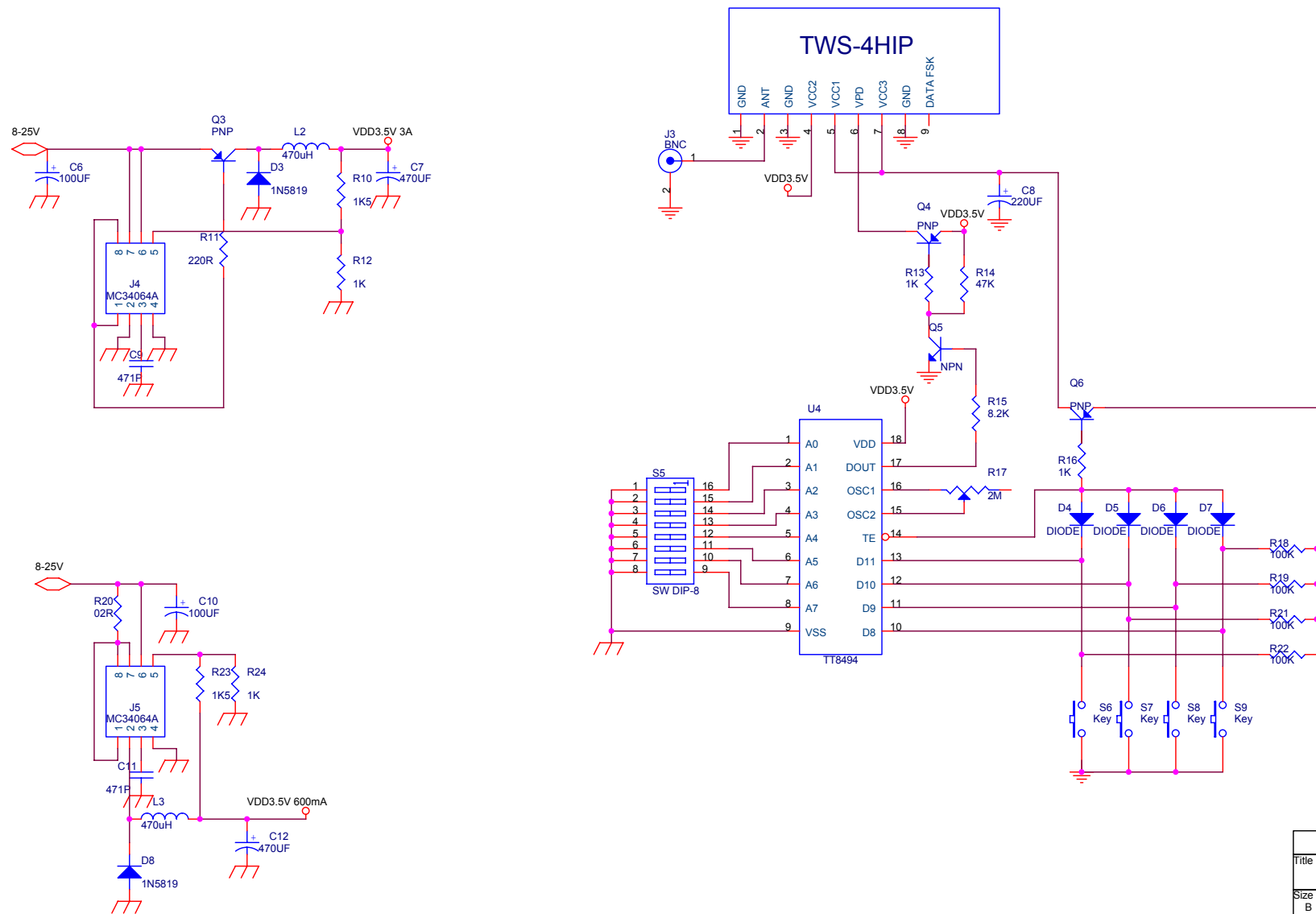
Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range		400 to500		MHz	
Total CW Efficiency	52	55		%	Vcc=3.0V Pout=+32.5 dBm
Power Down Isolation	45			dB	
Power Control Control Voltage VPD	0		2.4	V	
Power Supply Voltage	3.0	3.5	5.3	V	
Power Supply Current		1100		mA	
Regulated Voltage VREG	2.7	3.5	5	V	
Current from VREG			12	mA	

Pin	Function	Description
1	DATA1	FSK DATA IN
2	GND	GND
3	VCC3	VCO VCC
4	VPD	Power Down control. When this pin is “low” all circuits are off. A low is
5	VCC1	PA BUFF VCC
6	VCC2	POWER RF AMP VCC(1100mA)
7	GND	GND
8	ANT	RF output,
9	GND	RF OUT GND

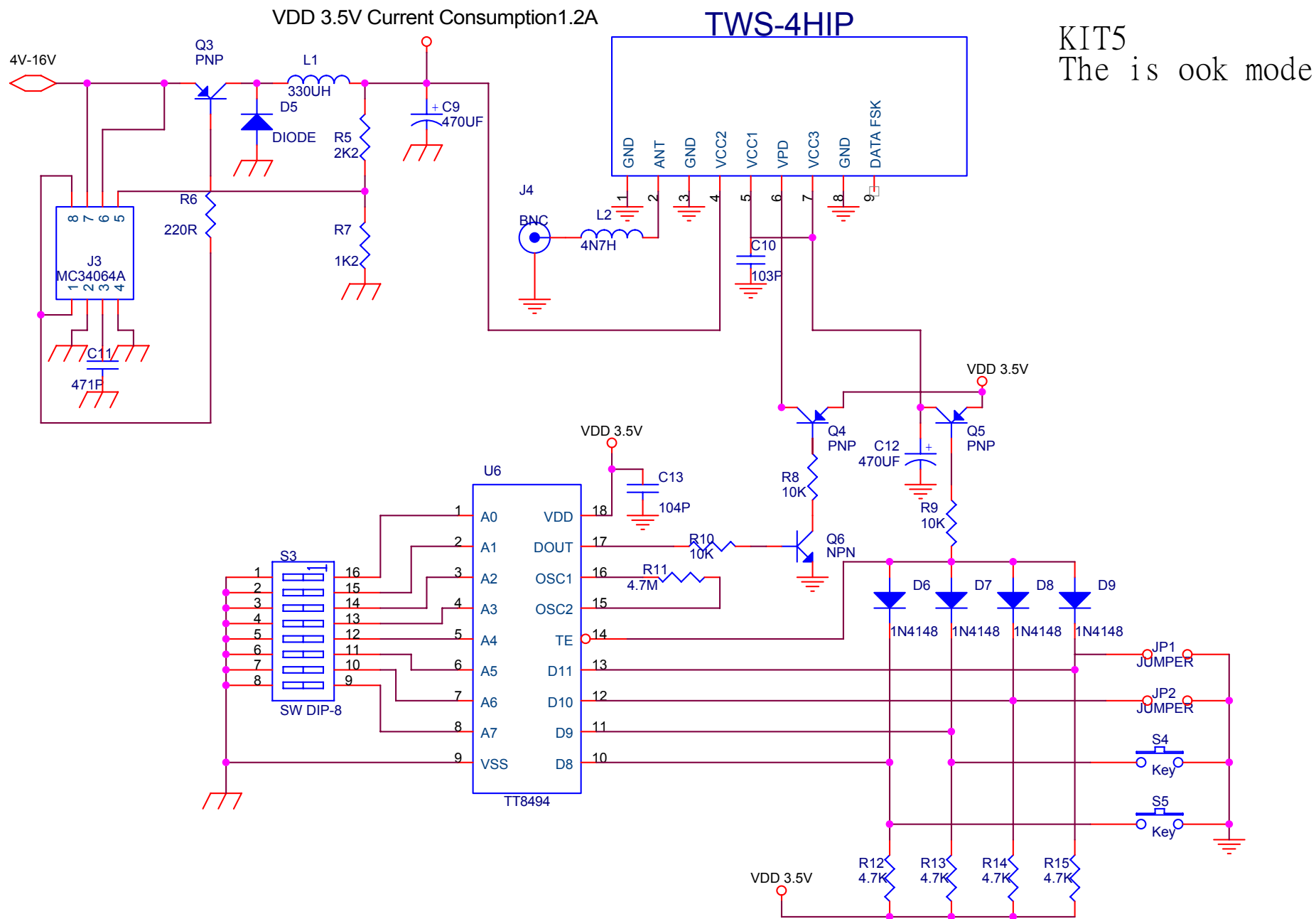
APPLICATION SCHEMATIC 433.92MHz 2W ASK MODE



APPLICATION SCHEMATIC 433.92MHz 2W ASK MODE



Title			WENSHING	
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B	TWS-4HIP			<RevCode>
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TRANSMITTER..433.92MHZ 2W

Title			WENSHING		
Size A	Document Number KIT5				Rev <RevCode>
Date:	Thursday, December 19, 2002		Sheet	2	of 2