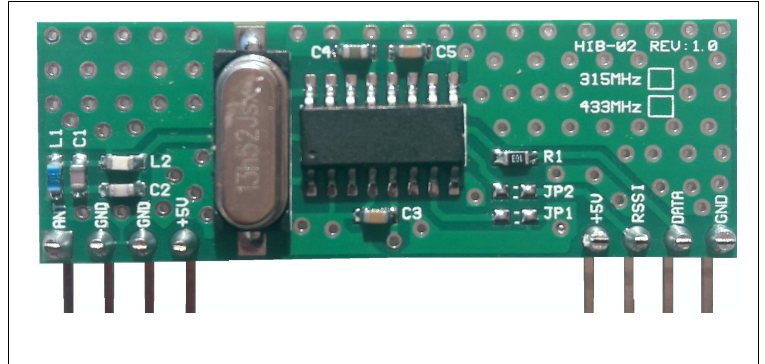


ASK/OOK Super Heterodyne Receiver Module

I. GENERAL DESCRIPTION

HIB02 is an ASK/OOK compatible super heterodyne receiver module which is intended to use with 433.92 Mhz and 315 Mhz. ISM band applications. The module incorporates an entire phase locked loop (PLL) for



precise local oscillator generation. The module is very simple to operate and offers a low current consumption. Demodulated data output can be directly interfaced to a microcontroller for decoding.

II. FEATURES

- * Frequency : 433.92 Mhz / 315 Mhz.
- * High Sensitivity: -110dBm @ (433.92Mhz., 1Kbps, BER:%1)
- * Wide Range Supply Voltage: From 3.6V to 5.5V
- * IF Band: 230 Khz.
- * Low Power Consumption: 6mA @ 433.92Mhz. & 4.8mA @ 315Mhz.
- * Excellent Selectivity and Noise Rejection.
- * Easy for interfacing to a microcontroller.

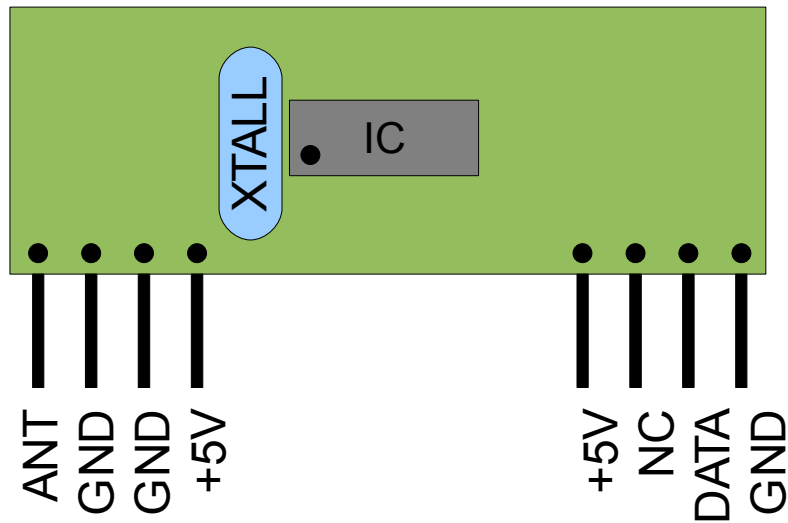
III. TYPICAL APPLICATIONS

- * Remote Keyless Entry.
- * Remote Gate Openers.
- * Car Alarm Systems.
- * Wireless Security Systems.
- * General Purpose Data Communication.

IV. ORDERING INFORMATION

PART NUMBER	DESCRIPTION
HIB02-433	433.92 MHz. ASK Receiver Module
HIB02-315	315 MHz. ASK Receiver Module

V. PIN DESCRIPTION



PIN NAME	DESCRIPTION
ANT	RF Signal Input Pin. Characteristic Empedance: 50 Ohm For $\lambda/4$ dipole antenna: Connect to wire of 23 cm. for 315MHz. and 17cm. for 433 MHz.
GND	Connect to Power Supply Negative Input
GND	Connect to Power Supply Negative Input
+5V	Connect to Power Supply Positive Input. Should be between 3.6V-5.5V
+5V	Connect to Power Supply Positive Input. Should be between 3.6V-5.5V
NC	No Connection.
DATA	Demodulated digital data output. Connect to Microcontroller input pin.
GND	Connect to Power Supply Negative Input

VI. ELECTRICAL CHARACTERISTICS

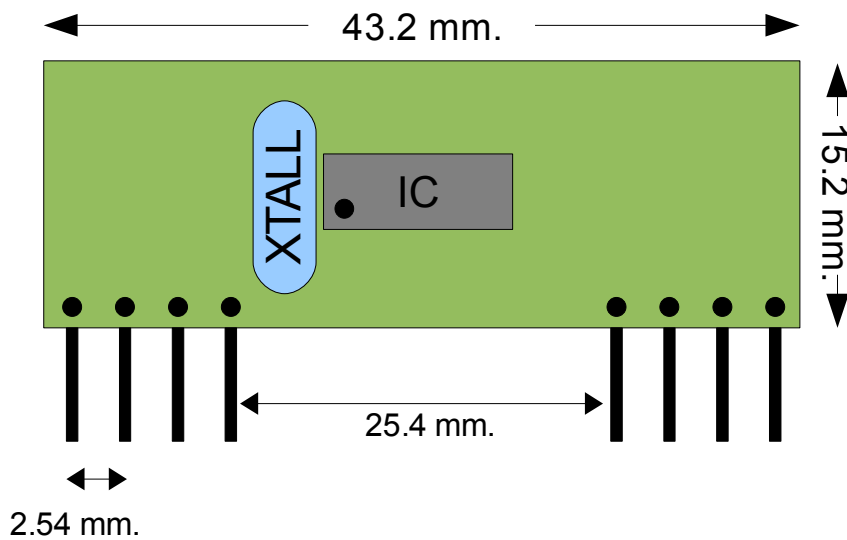
(Condition: Ta=25°C, Supply Voltage: +5V, Frequency:315MHz unless otherwise specified)

Parameter	Specification			Unit	Notes
	Min	Typ	Max		
Receiver Sensitivity		-110		dBm	Data Rate:1Kbps, BER = %1
Data Rate		2400	5000	bps	Bit Rate
Supply Voltage	3.6	5	5.5	V	DC
Supply Current		4.8		mA	
Operating Temperature	-20		+70	°C	

(Condition: Ta=25°C, SupplyVoltage:+5V, Frequency: 433.92MHz. unless otherwise specified)

Parameter	Specification			Unit	Notes
	Min	Typ	Max		
Receiver Sensitivity		-110		dBm	Data Rate:1Kbps, BER = %1
Data Rate		2400	5000	bps	Bit Rate
Supply Voltage	3.6	5	5.5	V	DC
Supply Current		6		mA	
Operating Temperature	-20		+70	°C	

VII. MECHANICAL DIMENSIONS



VIII. TECHNICAL SUPPORT

For technical support and custom design requests please contact us as follows ;

Website: www.rfhybrid.com

E-mail: info@rfhybrid.com