

TX9902B

RF Transmitter Module With Encoder

(SAW resonator stabilized) (DC 3 ~ 12V)

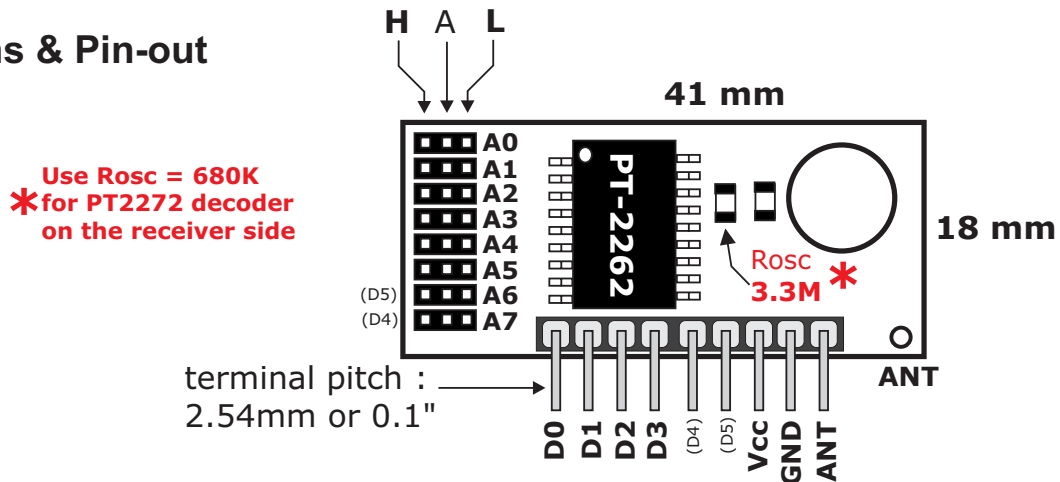
Application

- 1) Industrial remote control, remote monitoring & sensing
- 2) Wireless security alarm or low baud rates digital signal transmission receiver
- 3) Remote control for household electrical appliances and robotic projects.

Technical Specifications

Operating voltage	3 ~ 12V DC
Operating current	max: < 5mA(12V), < 2mA(3V)
Oscillator	SAW filter stabilized
Modulation	OOK, ASK
Frequency	315 MHz or 433.92 MHz
Frequency tolerance	± 150 KHz (max)
Transmission (RF) power	50mW (at 315 MHz & 12V)
Data transmission rate	<= 10K bps
On board Encoder IC	PT2262 or compatible chips (SC2262, CS5211, etc)
Antenna length	24 cm (315MHz), 18 cm (433.92 MHz)

Dimensions & Pin-out



IMPORTANT NOTES

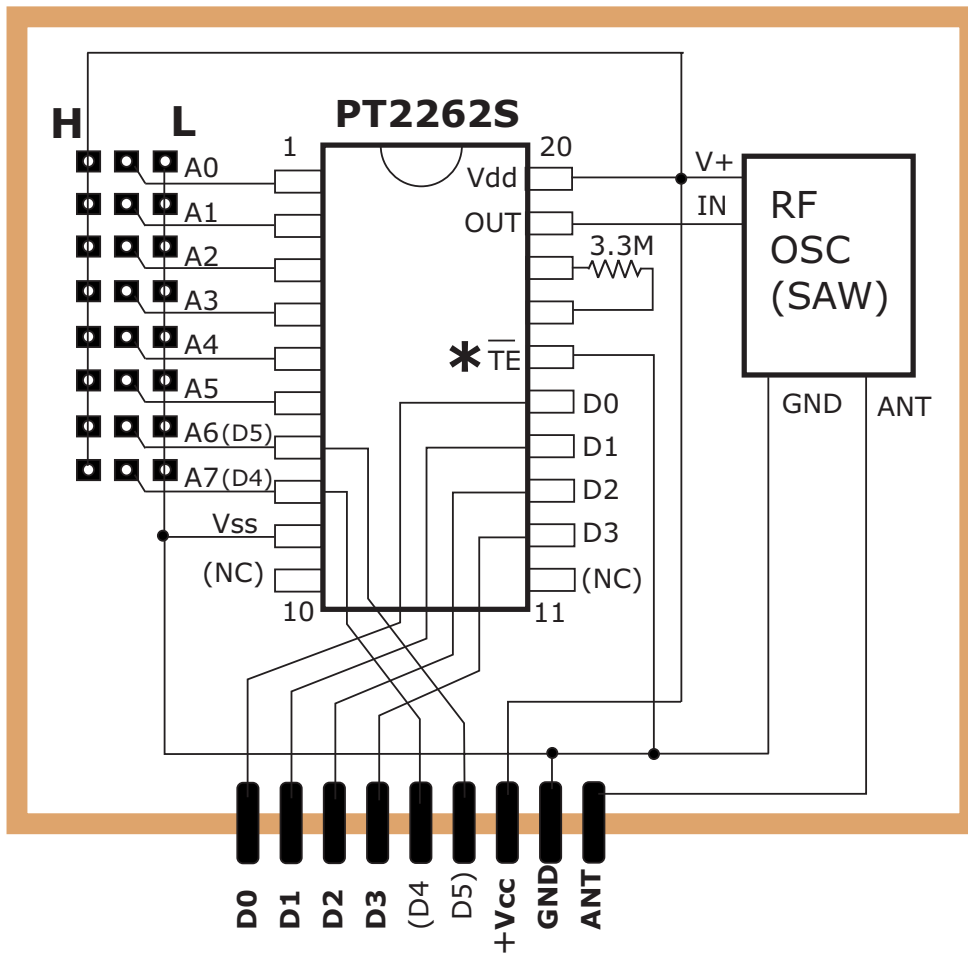
- 1) **Antenna** : Use any soft/hard wire with the specified length. If a telescopic antenna is used, be sure that it is fully extended. Length of antenna is important and frequency dependent (refer to the specs section above for the correct length)
- 2) If the transmitter module is housed in a metal casing, an external antenna should be used. For best result, use 50 Ω coaxial cable for connecting the antenna to the module.



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Simplified Block diagram



* NOTE : TE pin is permanently tied to GND. The transmitter is in the continuous transmission mode.

Waveform at PT2262 output pin

(please refer to PT2262 datasheet for more info on signal format & timing)

