TX9902B

RF Transmitter Module With Encoder

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

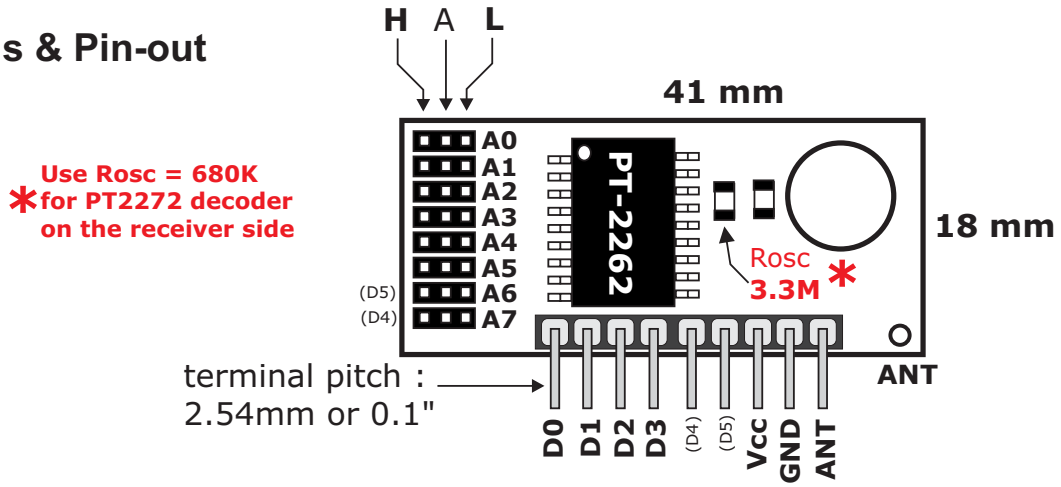
Application

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 stablilized
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

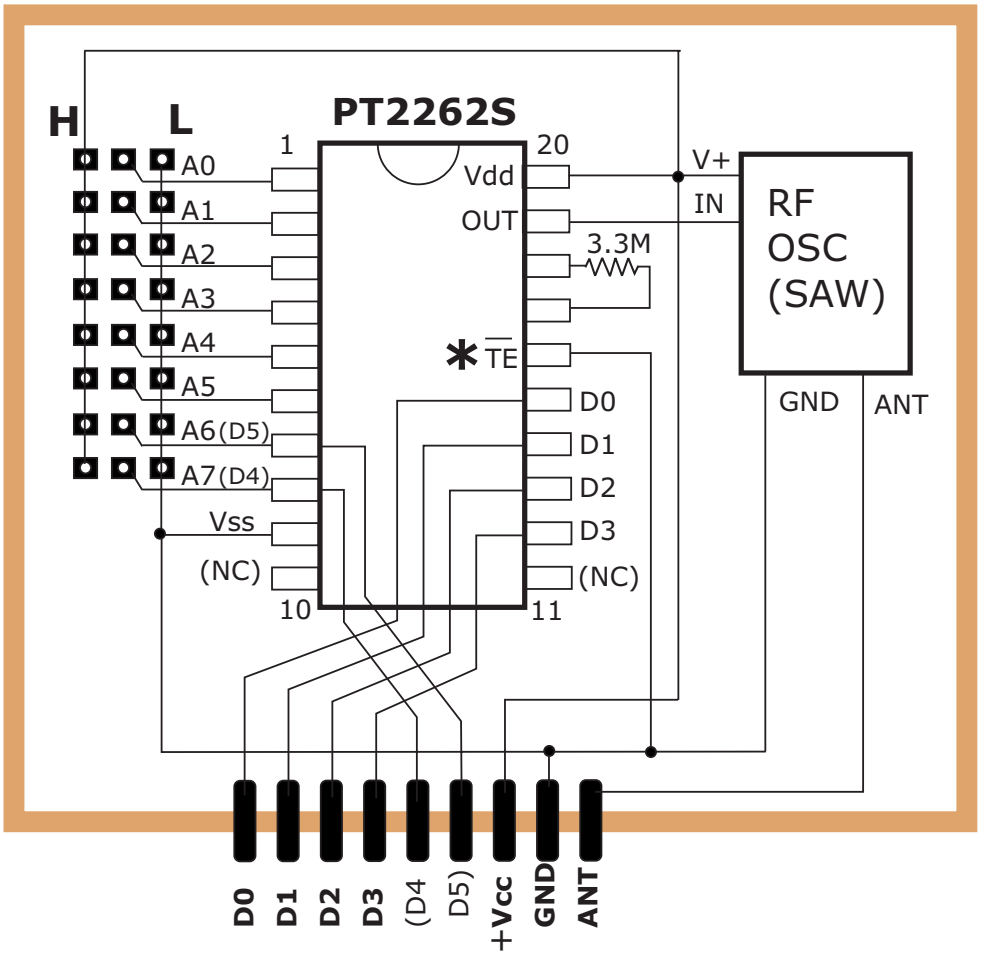


IMPORTANT NOTES

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.

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)