



Long Range Wireless Applications

Designed for long-range (up to 1250 ft*) unlicensed wireless applications under Part 15 of the FCC Regulations. This module requires no external components or production tuning. The module generates 100% on-off keyed (OOK) modulation of a SAW stabilized carrier. An internal filter attenuates harmonics to levels ensuring compliance with FCC spurious emissions requirements. The low power requirements make it ideal for battery operation. The module is packaged in an RFI/EMI shielded enclosure. Use with RX series modules, RXAM series receiver boards or RCR series receivers.

TX Series

Through-Hole Package



**303, 315,
418, 433 MHz**
**On-Off Keyed Receiver
Module**

Features

- Compatible with RX, RXAM, EVRX Series Receivers
- Low Cost
- Simple Application
- Long Range-- exceeds 1250 ft*
- No RF Design Required
- Low Power Requirements
- SAW Stabilized
- Conforms to FCC Requirements

Typical Applications

- Remote Control
- Data Transmission
- Security – Home/Industrial/Auto
- Telemetry
- RFID
- Utility Meter Reading

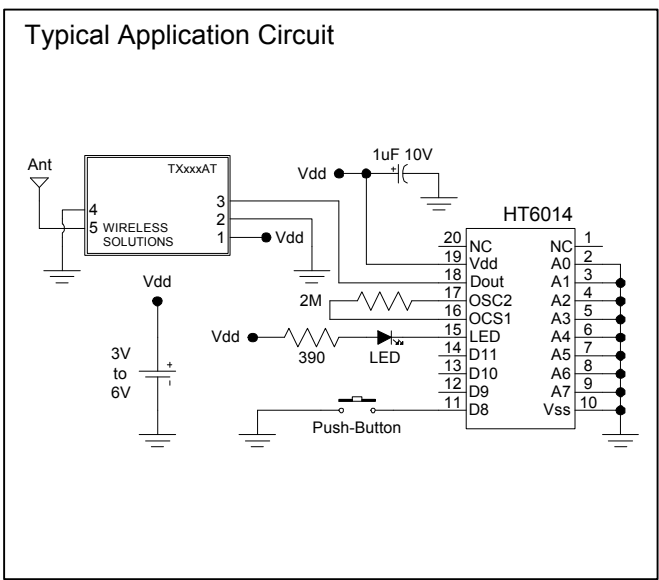
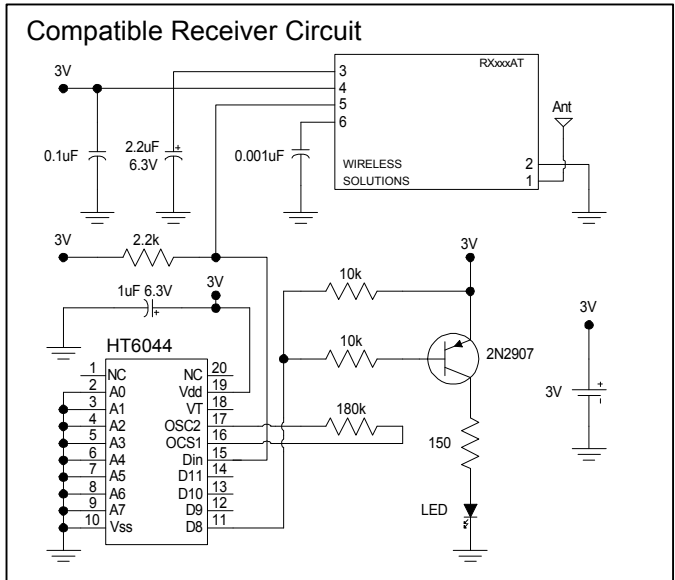
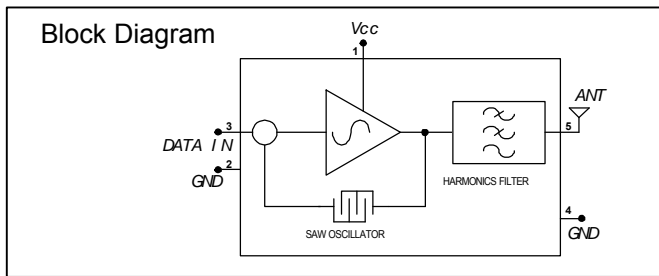
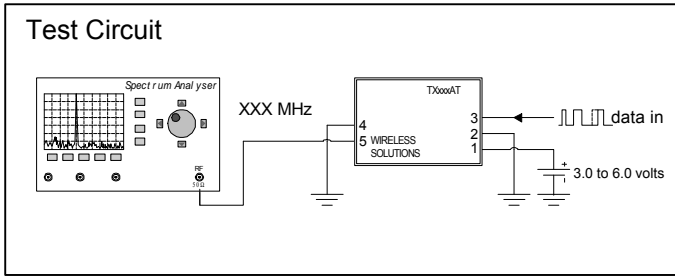
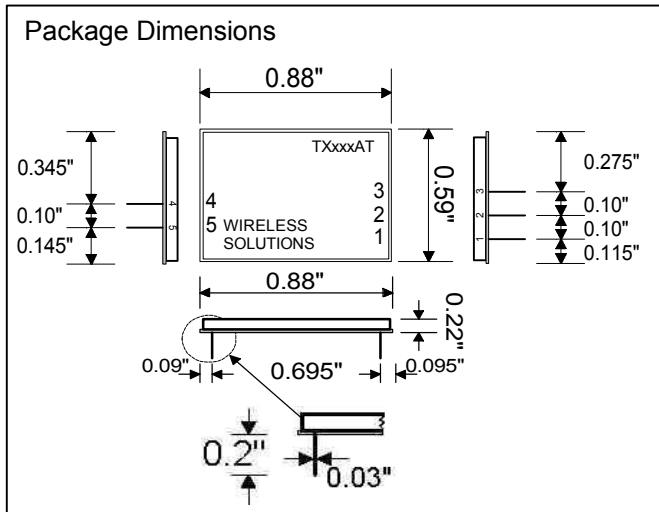
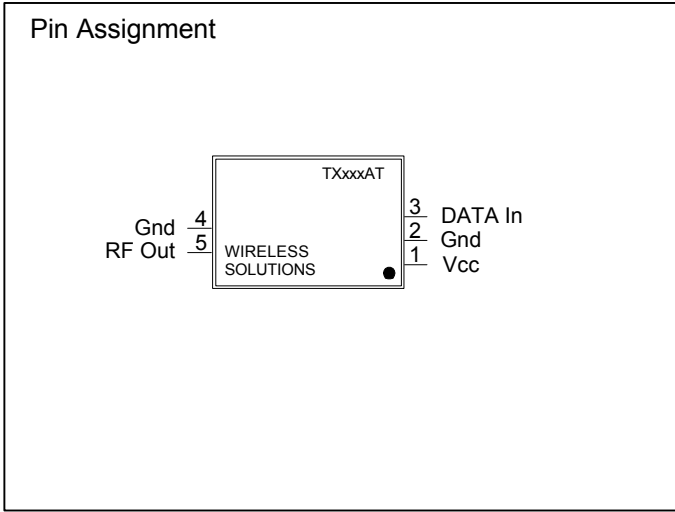
Frequency (MHz)	Model Number	Matching Receiver	Matching RXAM Board	Matching Eval. Board
303.825	TX303A	RCR303A	RXAM303AT	EVRX303A
315.000	TX315A	RCR315A	RXAM315AT	EVRX315A
418.000	TX418A	RCR418A	RXAM418AT	EVRX418A
433.920	TX433A	RCR433A	RXAM433AT	EVRX433A

Electrical Characteristics

Sym	Parameter	Min	Typ	Max	Unit
VCC	Operating Voltage Range	2.8	3.0	3.3	Volts
Icc	Operating Current (at VCC=3V & Din=3V)		10		mA
f _{max}	Data Rate		2k		bps
	Sensitivity (at 1Kbps)		-112		dBm
f _c	Center Frequency		See Chart		MHz
BW	Receiver RF Bandwidth	450		650	kHz
	Spurious Response Rejection @ 10 MHz		-80		dBm
Z _{out}	Antenna Input Impedance		50		Ohms
T _{op}	Operating Temperature	-20		+70	C

Specifications subject to change without notice or obligation.

Through-Hole Package



Notes: * Line of sight, ground plane & quarter wave antennas. When used with RX series receivers.
 Antennas: All antennas should be 50 ohms. A typical antenna would be a quarter wavelength wire or rod.

Specifications subject to change without notice or obligation.