

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

Designed for long-range (up to 1000 ft*) unlicensed wireless applications under Part 15 of the FCC Regulations. The receiver provides excellent sensitivity (-112 dBm typical), front-end selectivity and immunity from desensitization. The low power requirements make it ideal for battery operation. Fast turn-on time allows it to be operated in "sampled" mode. No production tuning and only two external components are necessary. The module is packaged in an RFI/EMI shielded enclosure. Use with Applied Wireless transmitters.



Through-Hole Package

Features

- Compatible with TX, KTX, TXAM Series Transmitters
- Low Cost
- Simple Application
- Long Range-- exceeds 1000 ft*
- No RF Design Required
- Low Power Requirements
- Conforms to FCC Requirements
- Fast Turn-On Time

Typical Applications

- Data Transmission
- Telemetry

Part Ordering Information

<i>Frequency (MHz)</i>	<i>Model Number</i>	<i>Matching Key Chain Transmitter</i>	<i>Matching TXAM Transmitter</i>	<i>Matching Eval Board</i>
303.825	RX303A	KTX303A3	TXAM303AT	EVTX303A
315.000	RX315A	KTX315A3	TXAM315AT	EVTX315A
418.000	RX418A	KTX418A3	TXAM418AT	EVTX418A
433.920	RX433A	KTX433A3	TXAM433AT	EVTX433A

Maximum Ratings

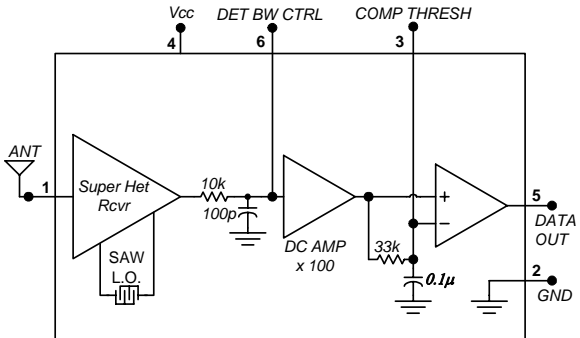
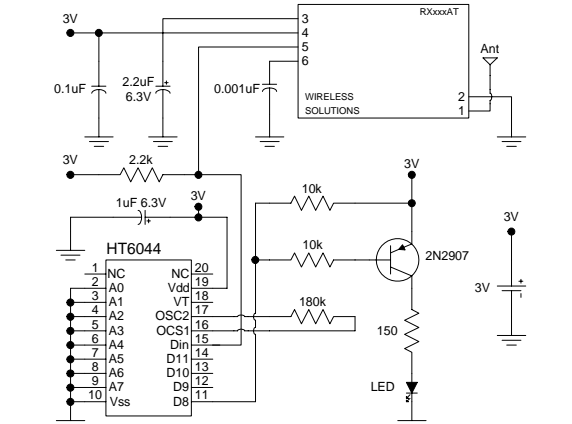
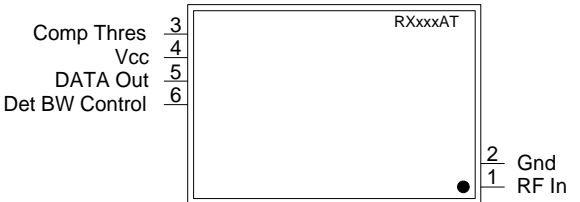
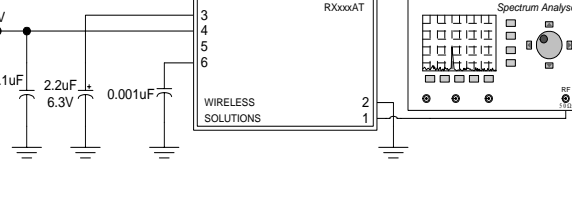
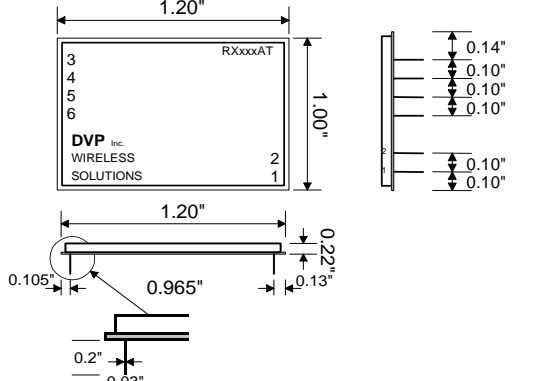
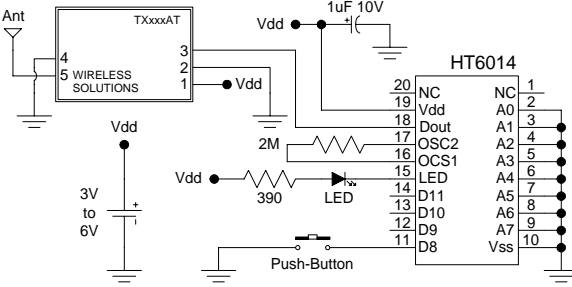
Sym	Parameter	Value	Unit
VCC	DC Supply Voltage	0 to 3.8	Volts
RF _{in}	RF Input	+10 dBm	Volts
T _{stg}	Storage Temperature	-25 to +125	C

¹ Line of sight range, when used with a 1/4-wave ground plane antenna.

² x=Number of buttons (1, 2 or 3)

Electrical Characteristics

Sym	Parameter	Min	Typ	Max	Unit
VCC	Operating Voltage Range	2.8	3.0	3.3	Volts
I _{cc}	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

<h3>Block Diagram (A Series)</h3> 	<h3>Application Circuit- Remote Control</h3> 
<h3>Pinouts</h3> 	<h3>Test Circuit</h3> 
<h3>Mechanical Outline</h3> 	<h3>Compatible Transmitter Application Circuit</h3> 

Specifications subject to change without notice or obligation.