

TXB1

315/434  
868/914.5MHZ  
Hybrid  
Transmitter

Ideal for 315/433.92/868.35/914.5MHz  
Phase-Locked Loop Feature  
FSK Design

The TXB1 is an FSK transmitter module that transmits . Local Oscillator is made of PLL structure .The result is excellent performance in a simple-to-use . The TXB1 is designed specifically for remote-control , wireless speaker/earphone/microphone/mouse and car alarm system It is operating at 315/433.92/868.35/914.5 MHZ.



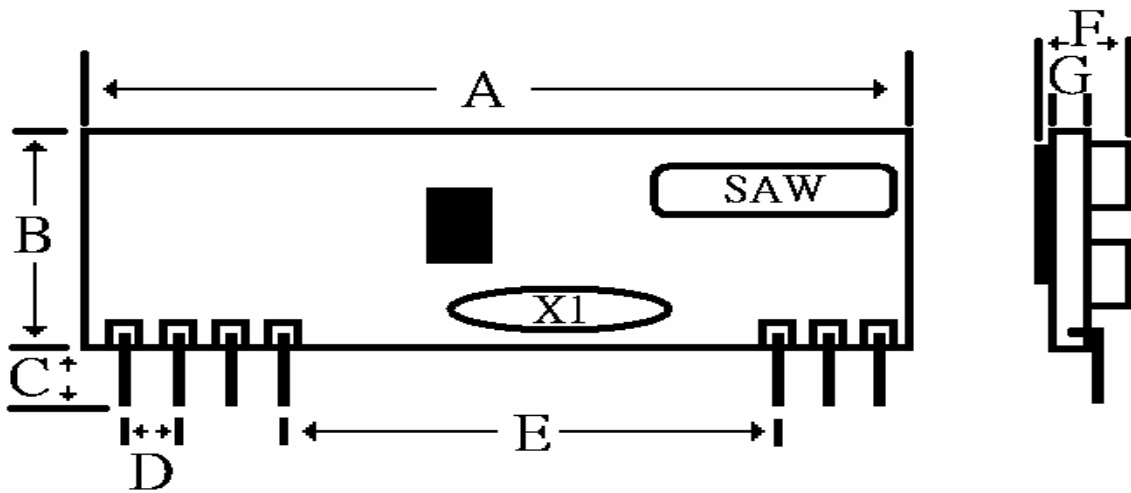
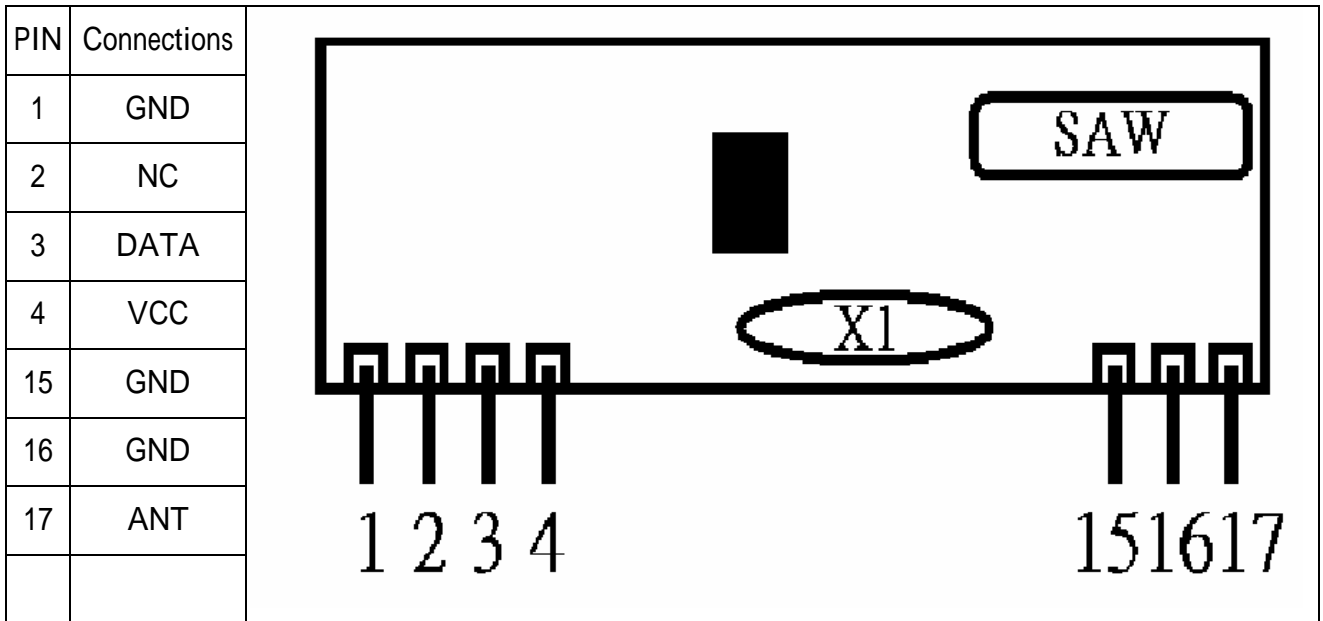
**Absolute Maximum Ratings**

Parameter	Value	Units
Power Supply and/or Modulation Input Voltage	3	V
Operating temperature	-20 to +80	

**Transmitter Characteristics**

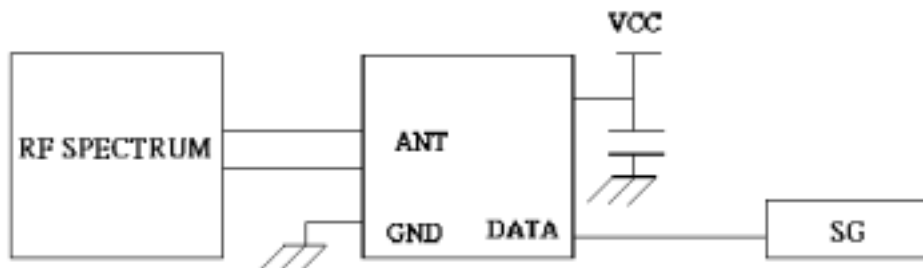
Parameter	Symbol	Condition	Value			Unit	
			min.	typ.	max.		
Output power		Vcc=3.0V,TA-27 , 50 load	315MHz	3	6		dBm
			433.92MHz	3	6		dBm
			868.35MHz	-2	1		dBm
			914.5MHz	-2	1		dBm
Supply current	Icc		10		20	mA	
Supply current(stand-by)	Icc	TXEN = low		3		mA	
Supply voltage Range	Vcc		+2.7	+3	+3.3	V	
Turn On-Off time				1	2	ms	
Data Rate			300	1K	10K	bps	

\* Better using Vcc control as enable

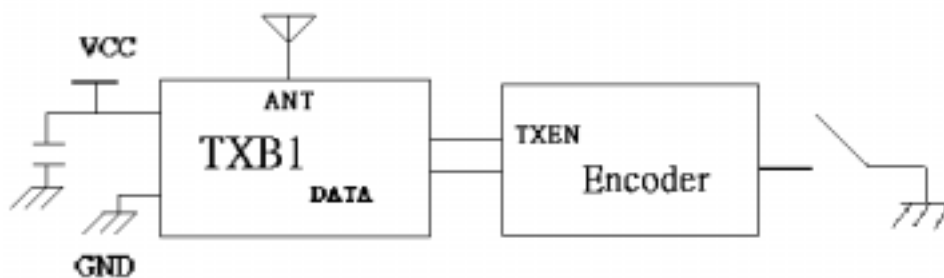


Dimensions	Millimeters	Dimensions	Millimeters
A	44 +/- 0.25mm	E	27.5 +/- 0.05mm
B	12.2 +/- 0.1mm	F	6.1 +/- 0.1mm
C	5.9 +/- 0.1mm	G	1.2mm (MAX)
D	2.54mm (MAX)		

## Typing Test Circuit



## Typical transmitter Application



## Notes:

1. Encoder : HT12D/F , PTC ( 2262 )
2. Antenna : Length = 22.6cm for 315MHz ; Length = 17.2 cm for 433.92MHz.  
Length = 8.7cm for 868.35MHz ; Length = 8.2cm for 914.5MHz