



TXK1

315/433.92/868.35/914.5 MHz (FM)

Hybrid Transmitter

◎Ideal for 315/433.92/868.35/914.5MHz

◎Phase-Locked Loop Feature

◎FM Design

The TXK1 is an FM transmitter module that transmitter voice signal.

It uses a low power consumed PLL IC .The result is excellent performance in a simple-to-use . The TXK1 is designed specifically for wireless speaker/earphone/microphone 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	-40 to +80	°C

Transmitter Characteristics

Parameter	Symbol	Condition	Value			Unit
			min.	typ.	max.	
Output power		V _{cc} =3.0V,TA -27°C, 50 Ω load	315MHz	3	6	dBm
			433.92MHz	3	6	dBm
			868.35MHz	3	6	dBm
			914.5MHz	1	4	dBm
Supply current	I _{cc}		10		20	mA
Supply voltage Range	V _{cc}		+2.7	+3	+3.3	V
Freq. Response	F _{res}		20		>20K	Hz
Center freq. Offset	F _{off}		-20K		+20K	Hz

* Better using V_{cc} control as enable

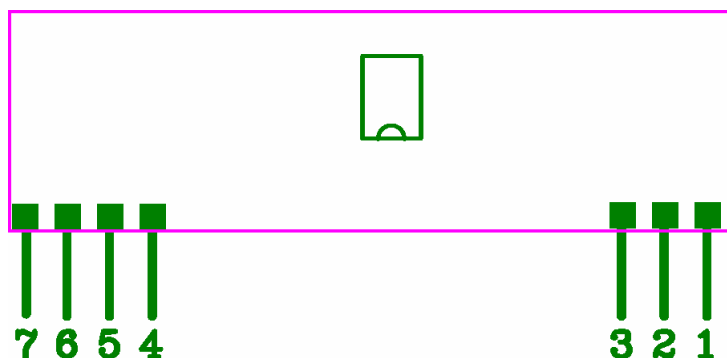


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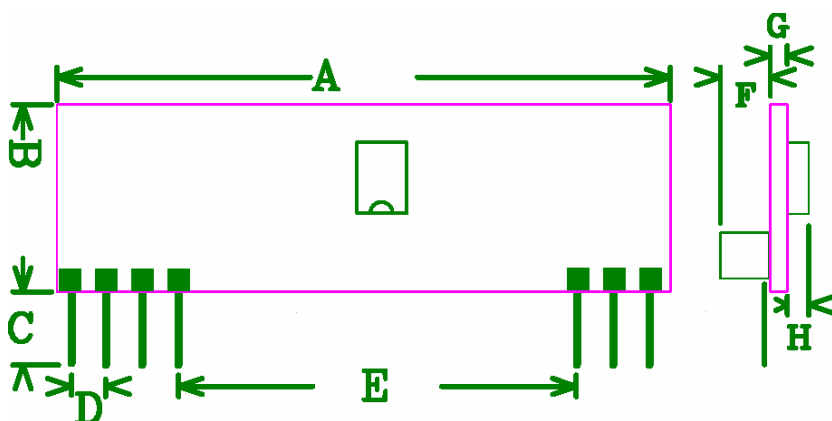
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Pin assignment



Number	Name	Description
1	ANT	
2	GND1	for RF only , please setup the pin on N.C when it did not used
3	GND1	for RF only , please setup the pin on N.C when it did not used
4	VCC	DC voltage supply
5		
6	AUDIO	AUDIO INPUT
7	GND	



Dimensions	Millimeters	Dimensions	Millimeters
A	43 +/- 0.25mm	E	28 +/- 0.1mm
B	13.1 +/- 0.25mm	F	3.5 +/- 0.1mm
C	5.0 +/- 0.1mm	G	1.2mm (MAX)
D	2.54mm (MAX)	H	1.5 +/- 0.1mm

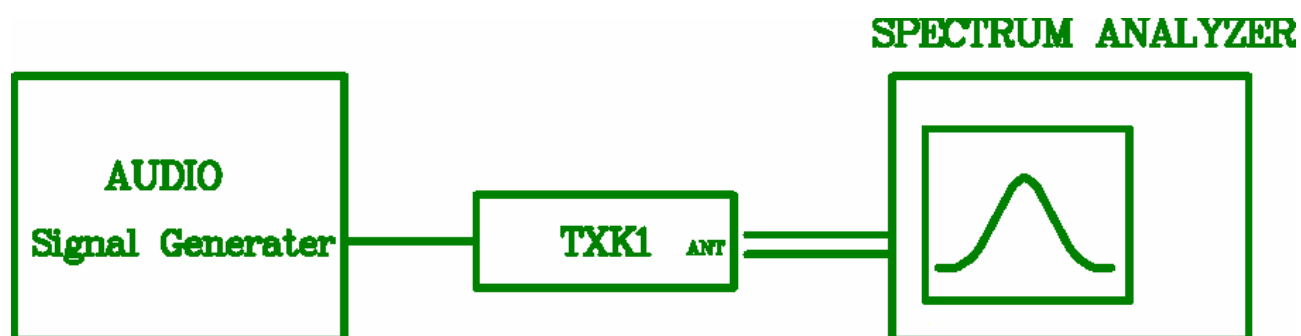


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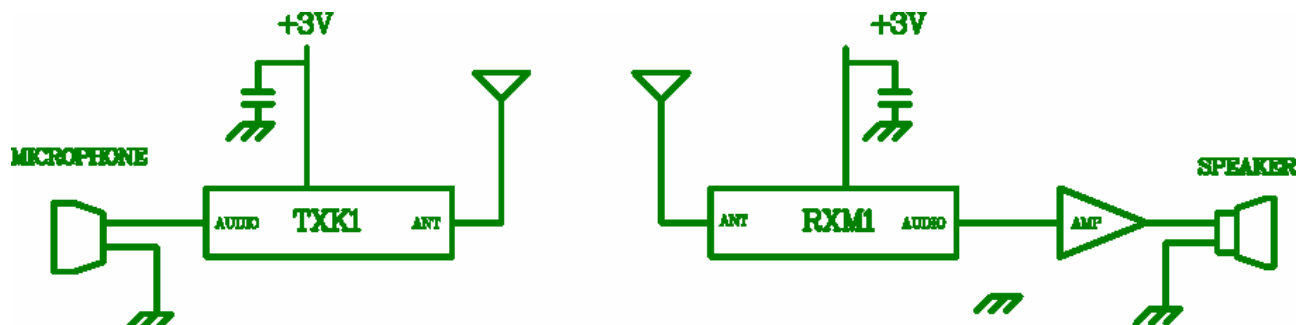
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Typing Test Circuit



Typical transmitter Application



Notes:

1. 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