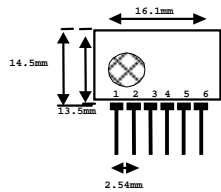


Easy-Link  
Wireless

**TLP-434 Transmitter**

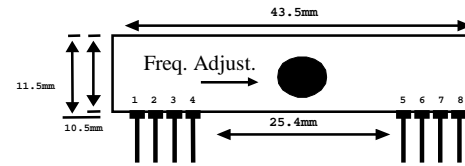


pin 1 : Vcc  
pin 2 : Vcc  
pin 3 : Gnd  
pin 4 : Gnd  
pin 5 : RF Output  
pin 6 : Digital Data Input

Frequency 315, 418 and 433.92MHz

Modulation : ASK  
Operation Voltage : 2 - 12 VDC  
RF Output Power max : 8mW

**RLP-434 Receiver**



pin 1 : Gnd  
pin 2 : Digital Data Output  
pin 3 : Linear Output  
pin 4 : Vcc  
pin 5 : Vcc  
pin 6 : Gnd  
pin 7 : Gnd  
pin 8 : Antenna ( About 30 - 35 cm )

Frequency 315, 418 and 433.92MHz

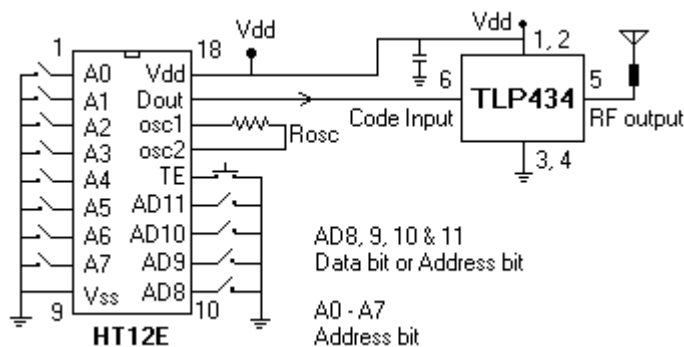
Modulation : ASK  
Supply Voltage : 4.5 - 5.5 VDC  
Output : Digital & Linear  
Sensitivity : 3uVrms

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
Vcc	Operating supply voltage		2.0	-	12.0	V
Icc	Peak Current		-	5	-	mA
Vh	Input High Voltage	Idata= 100uA (High)	Vcc-0.5	Vcc	Vcc+0.5	V
VI	Input Low Voltage	Idata= 0 uA (Low)	-	-	0.3	V
FO	Absolute Frequency	315Mhz module	314.8	315	315.2	MHz
	Relative To 433.92MHz			+/-150	+/-200	KHz
PO	RF Output Power- 50ohm	Vcc = 9V to 12V	-	14	-	dBm
		Vcc = 5V to 6V	-	16	-	dBm
DR	Data Rate	External Encoding	-	2.4K	3K	bps

Notes : ( Case Temperature = 25°C +- 2°C , Test Load Impedance = 50 ohm )

**Application Circuit I:**

Typical Key-chain Transmitter using HT12E-18DIP, a Binary 12 bit Encoder from Holtek Semiconductor Inc.



AD8, 9, 10 & 11  
Data bit or Address bit  
A0 - A7  
Address bit

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
Vcc	Operating supply voltage		4.5	5	5.5	V
Itot	Operating Current		-	3.5	4.5	mA
Vdata	Data Out	Idata = +200 uA ( High )	Vcc-0.5	-	Vcc	V
		Idata = -10 uA ( Low )	-	-	0.3	V

**Electrical Characteristics**

Characteristics	SYM	Min	Typ	Max	Unit	
Operation Radio Frequency	FC	315, 418 and 434			MHz	
Sensitivity	Pref	-100	-103	-106	dBm	
Channel Width		+-1.5			Khz	
Receiver Turn On Time		5			ms	
Noise equivalent BW	NEB	4			Khz	
Baseboard Data Rate		3			5	Khz

**Application Circuit II:**

Typical RF Receiver using HT12D-18DIP, a Binary 12 bit Decoder with 8 bit uC HT48RXX from Holtek Semiconductor Inc.

