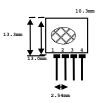
## TLP434A Ultra Small Transmitter

# Easy-Link Wireless



pin 1 : GND pin 2 : Data In

pin 3 : Vcc pin 4 : Antenna ( RF output )

Frequency 315, 418 and 433.92 Mhz

Modulation : ASK

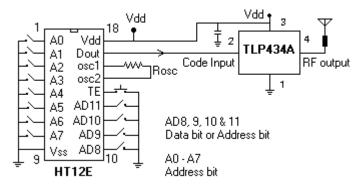
Operation Voltage : 2 - 12 VDC

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
Vcc	Operating supply voltage		2.0	-	12.0	V
Icc 1	Peak Current (2V)		-	-	1.64	mA
Icc 2	Peak Current (12V)		-	-	19.4	mA
Vh	Input High Voltage	Idata= 100uA (High)	Vcc-0.5	Vcc	Vcc+0.5	V
Vl	Input Low Voltage	Idata= 0 uA (Low)	-	-	0.3	V
FO	Absolute Frequency	315Mhz module	314.8	315	315.2	MHz
PO	RF Output Power- 50ohm	Vcc = 9V-12V	-	16	-	dBm
		Vcc = 5V-6V	-	14	-	dBm
DR	Data Rate	External Encoding	512	4.8K	200K	bps

Notes : ( Case Temperature =  $25^{\circ}$ C +-  $2^{\circ}$ C , Test Load Impedance = 50 ohm )

#### Application Circuit:

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

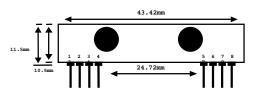


## Laipac Technology, Inc.

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## RLP434A SAW Based Receiver



pin 1 : Gnd

pin 2 : Digital Data Output pin 3 : Linear Output /Test

pin 3 : Linea pin 4 : Vcc pin 5 : Vcc

pin 6 : Gnd pin 7 : Gnd pin 8 : Antenna

Frequency 315, 418 and 433.92 Mhz

Modulation : ASK

Supply Voltage : 3.3 - 6.0 VDC Output : Digital & Linear

Symbol	Parameter	Conditions		Min	Тур	Max	
Vcc	Operating supply voltage			3.3	5.0V	6.0	V
Itot	Operating Current			-	4.5		mA
Vdata	Data Out	Idata = +200  uA ( High )		Vcc-0.5	ı	Vcc	V
		Idata = -10	uA (Low)	-	-	0.3	V
Electrica	al Characteristics						
Characte	Characteristics		Min	Тур		Max	Unit
Operation Radio Frequency		FC	315, 418 and 433.92				
Sensitivity		Pref		-110			dBm
Channel Width				+-500			Khz
Noise Equivalent BW				4			Khz
Receiver Turn On Time				5			ms
Operation Temperature		Тор	-20	-		80	C
Baseboa	Baseboard Data Rate			4.8			KHz

### Application Circuit:

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

