



Remote Coding Integrated Circuit (HS2262)

GENERAL DESCRIPTIONS

HS2262 is a general-purpose low power-dissipation coding circuit with CMOS technology. Besides the power-saving mode, each circuit comprises changeable address codes and data codes, and can be applied to Radio and Infrared Remote Emission. HS2262 is compatible to PT2262.

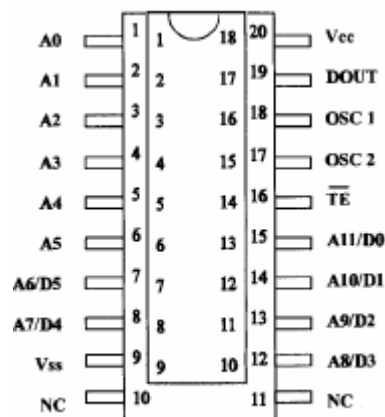
FEATURES:

- CMOS technology, low power-dissipation
- less peripherals
- single-pin resistor oscillating circuit
- a wide operating voltage range: 1.3V~12V
- maximum 6-bit data
- 531,441 address codes reachable
- Infrared and Radio Remote Control App.
- several package options

APPLICATIONS

- vehicle guard against theft systems
- house guard against theft systems
- remote controlled toys
- other industrial remote controls

PAD ASSIGNMENT



Specification Classification

HS2262X-RX



R: radio-frequency application, IR4 is infrared remote application,

The receiving port should make the signal direction reverse.

X: key-switch input pin quantity (6, 4, 2,0)

X: (S,D) S – SOP package; D – DIP package



PAD DESCRIPTIONS

Pad Name	Input/Output	Description
A0~Ax	Input	Address Pin, used for address coding, set as: "0", "1", "F" (floating)---three states.
D0~Dx	Input	Data Input Port, one is "1", code emitting, internal pull-low
Vcc	Input	Positive Power Supply (+) Input Port
Vss	Input	Negative Power Supply (-) Input Port
TE--	Input	Code Start Port, for multi-data code emission, low level effective, internal pull-high.
OSC1	Input	Double-Resistor Oscillator Input Port.
OSC2	Output	Double-Resistor Oscillator Output Port
Dout	Output	Code Output Port (low level)
NC	--	Empty Pin

FUNCTIONS COMPARISON

Style	Address Bit Quantity	Data Bit Quantity	Radio Remote App.	Infrared Remote App.	Max. Address Code Quantity	Decoder Type	Package
HS2262A-R6	6	6			729	HS2272-x6	SOP18, SOP20, DIP20
HS2262A-R4	8	4			6,561	HS2272-x4	SOP18, SOP20, DIP20
HS2262A-R2	10	2			59,049	HS2272-x2	SOP18, SOP20, DIP20
HS2262A-R0	12	0			531,441	HS2272-x0	SOP18, SOP20, DIP20
HS2262A-IR	8	4			6,561	HS2272-x4	SOP18, SOP20, DIP20

In the list above, "x" is M/L; M is data output moment mode; L is data output latch mode.



PARAMETER LIMITATION (Ta=25)

Parameter	Symbol	Range	Unit
power-supply voltage	V _{CC}	-0.3~12.0	V
input voltage	V _I	-0.3~V _{CC} +0.3	V
output voltage	V _o	-0.3~V _{CC} +0.3	V
Max.power-consumption	P _a	300	mW
operating temperature	Topr	-20~+70	
storage temperature	Tstg	-40~+125	

ELECTRIC PARAMETER (unless otherwise description, Tamb=25 , V_{DD}=12.0V)

Parameter	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Supply Voltage	V _{CC}		2.0		12	V
Supply Current	I _{CC}	V _{CC} =12V, non-oscillating, A0~A11 open		0.02	0.3	μA
Dout Output Driving Current	I _{OH}	V _{CC} =5V, V _{OH} =3V	-3			mA
		V _{CC} =8V, V _{OH} =4V	-6			mA
		V _{CC} =12V, V _{OH} =6V	-10			mA
Dout Output Sink Current	I _{OL}	V _{CC} =5V, V _{OL} =3V	2			mA
		V _{CC} =8V, V _{OL} =4V	5			mA
		V _{CC} =12V, V _{OL} =6V	9			mA

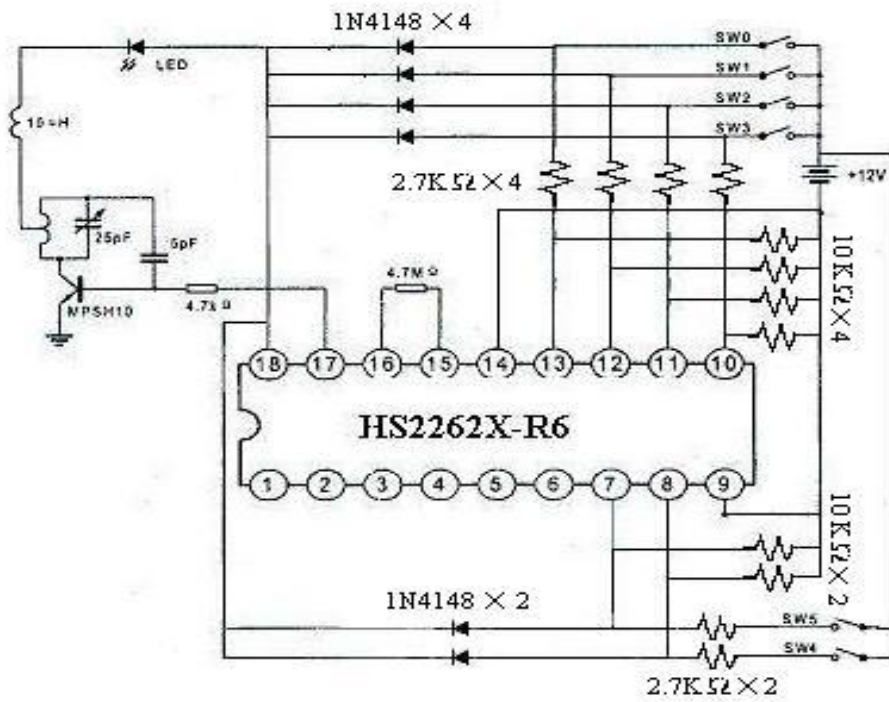
APPLICATION NOTES

Externally-connected Resistance --- Oscillating Frequency (just for reference):

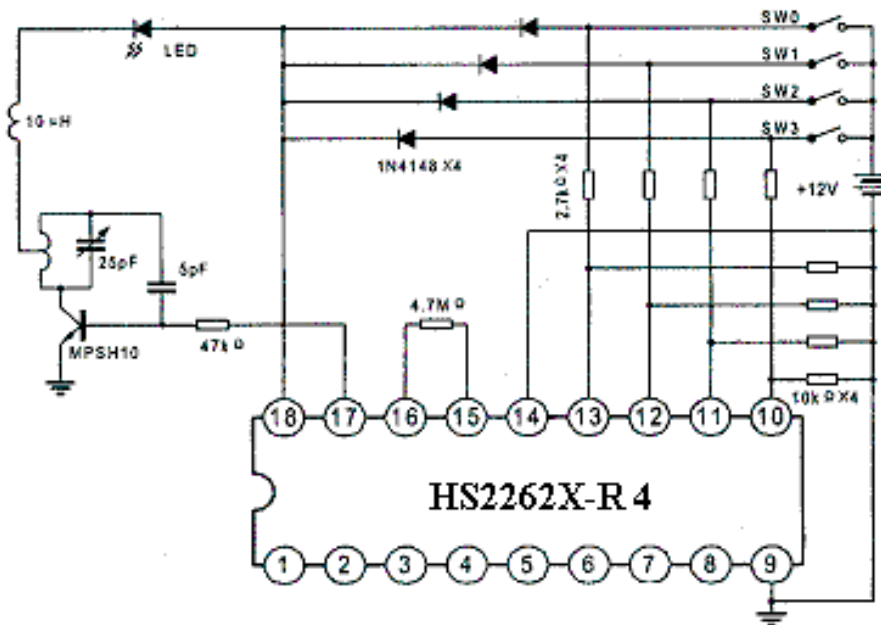
HS2262A	HS2272A/B	HS2272
3.3M	680K	270K
4.7M	820K	-----

Note:

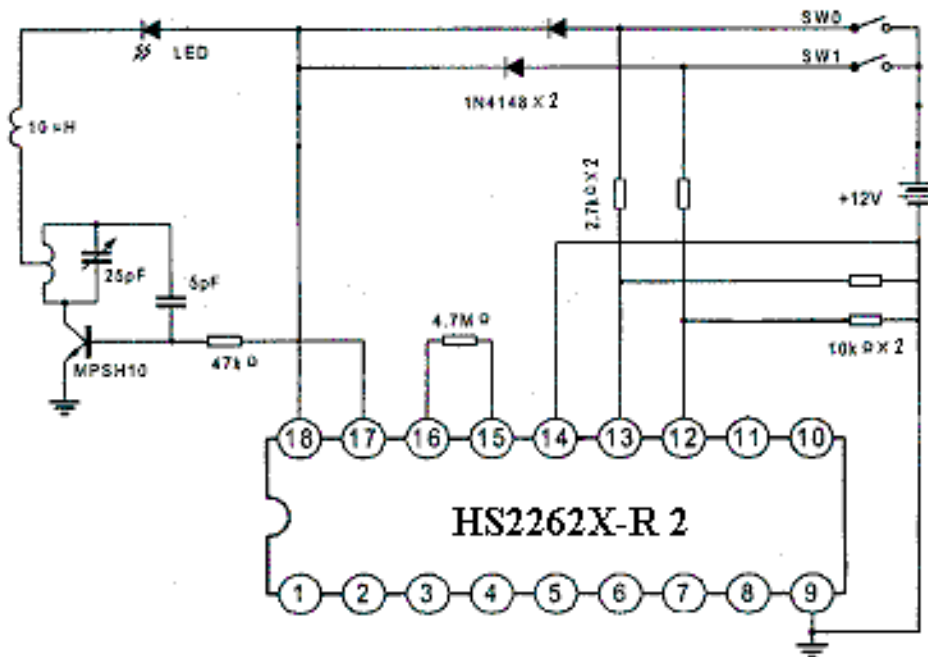
In applications, the externally-connected resistor can be adjusted properly as required. The bigger Resistance is, the slower Oscillating Frequency is. The bigger Code Width is, the longer a code-frame emission needs. It is usually connected as a 4.7M resistor during applications. Please make adjustment flexibly as detail needs.



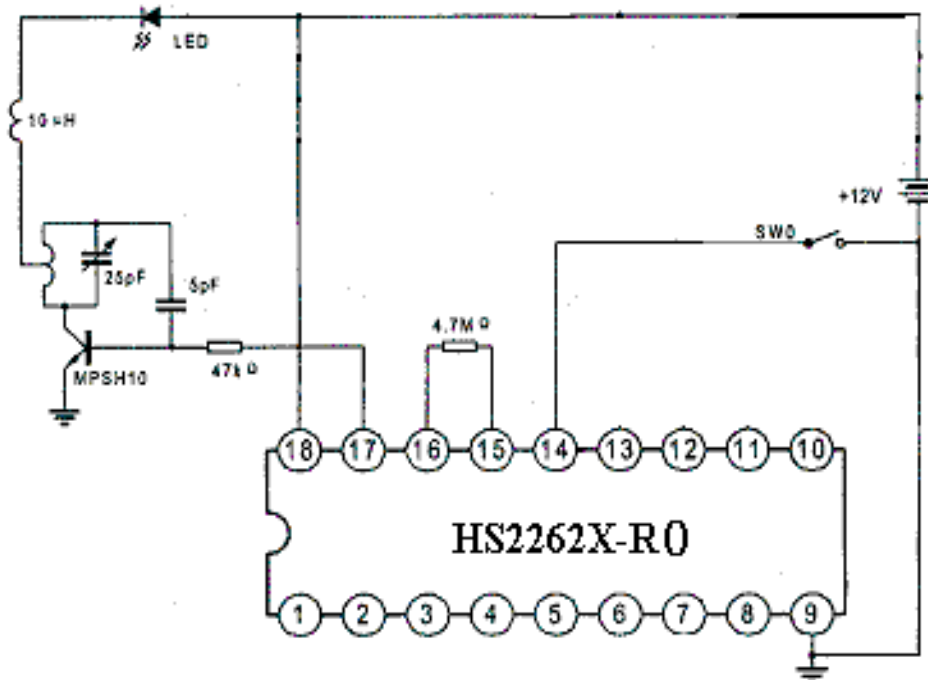
UHF Frequency-Segment 6 Data Emitting Circuit



UHF Frequency-Segment 4 Data Emitting Circuit



UHF Frequency-Segment 2 Data Emitting Circuit



UHF Frequency-Segment 0 Data Emitting Circuit