

BILL OF MATERIALS

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Design: t5744 / SPn

Dokumentointi on tehty osittain myös englanniksi, koska ulkomaiset nettisivujemme käyttäjät ovat toivoneet englanninkielistä dokumentointia. (Kielipillisesti englanti ei ole välttämättä oikein).

QTY	PART-REFS	VALUE
Resistors		
1	R1	820R / SMD / 1206
Capacitors		
2	C1,C2	1uF / SMD / tantal case B / voltage >10V
3	C3,C5,C10	10nF / SMD / 1206 / temp.coefficient X7R
1	C4	6.8nF / SMD / 1206 / temp.coefficient X7R
2	C6,C12	150pF / SMD / 1206 / temp.coefficient COG (NPO)
1	C7	15pF / SMD / 1206 / temp.coefficient X7R
1	C8	100pF / SMD / 1206 / temp.coefficient X7R
1	C9	3.9pF / SMD / 1206 / temp.coefficient COG (NPO)
1	C11	12pF / SMD / 1206 / temp.coefficient COG (NPO)
1	C13	4.7nF / SMD / 1206 / temp.coefficient COG (NPO)
1	C14	1nF / SMD / 1206 / temp.coefficient COG (NPO)
Integrated Circuits		
1	U1	T5744 / RECEIVER / SMD / SO-20
Others		
2	L1,L2	22nH / SMD / 1206 / Coilcraft
1	X1	6.76438 MHz / !!! SERIAL CRYSTAL !!!

Miscellaneous		
8	1,2,3,4,5,6,7,8	Connection pins (to pcb, can be used different types)
1		Insulator for crystal, to prevent crystal legs make contact to crystal body

Device works well in ASK applications.

RSSI function is usable in some field strength measurements and making mute to received signal.

Enable is useful if it is needed to save current. Current consumption is approx. 9mA active, 280µA sleep mode.

Receiving frequency is $64 \times \text{crystal} + 1 \text{ MHz} = 433.92 \text{ MHz}$

According to specs of T5744 baud rate is 8kBd when baud rate pins are connected as in this device.

Crystal was mounted to PCB as SMD components, bending legs and using insulator between crystal legs and crystal body.