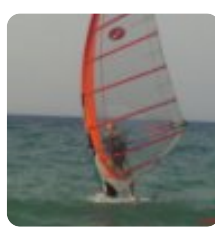


Capacitive height sensor

cnc_freak · Oct 7, 2015

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cnc_freak
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#1

Hello everybody.
I'm trying to make a capacitive sensor to measure the distance of from sensor to a metal plate.
I found an old schematic of an 13Mhz oscillator, but i cant found any information for the L1 transformer.
Can anybody help me out here? At the "HF" connector is connected the sensor, which is a metal ring, like in the picture.



Any help will be appreciated.

Attachments



13MHZ_OSC.jpg
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Dodgydave
Joined Jun 23, 2012 8,983
Oct 7, 2015

#2

It maybe one of the tuned IF coils found in fm radios, is there any other information about the circuit used, web site etc, going off the 470pf cap a resonance inductor at 13.56mhz, would be 290pico henrys, (0.290uH)

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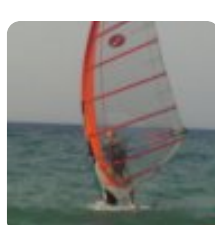


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#3

It must be something like that, but where can i find it, and what should i look for.
I googled for HF transformer 13Mhz, and i looked also at digikey, they have a big selection of variable coils but i have no clue about the inductance i must look for. The only think i know that the in the parts list of the schematic it says HF coil 13Mhz. N02/98, nothing else.
Im trying to find a picture of the complete board with all the parts on it, but i don't think this will help.

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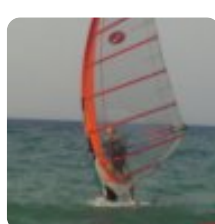


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#4

Here is the picture, i find it.

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#5

The board...



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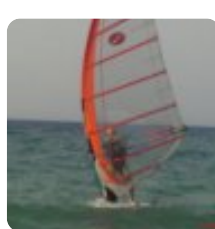
#6

Looks like a 1st or 2nd IF transformer 10.7mhz

<http://www.minikits.com.au/components/passive/inductors/if-transformers/KACSK3892A>

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#7

Thank you very much for the reply.
I managed to borrow the board and measure the inductance of the coil in question.
I has a primary winding of approximately 150uH and a secondary of 12uH and no capacitor in.
Here is a picture of the coil.
The question is now, how can i reproduce this coil. Can i buy somewhere empty plastic reels ,with ferrite core to wind my own coils?

Attachments

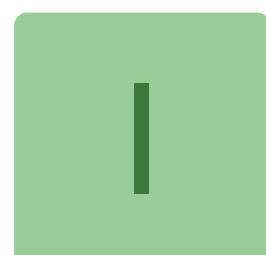


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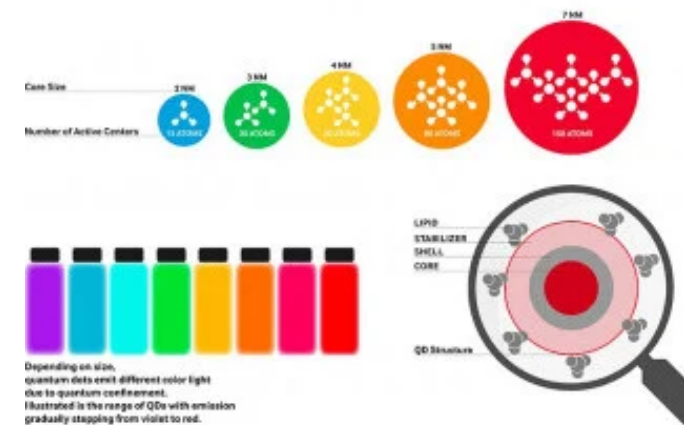
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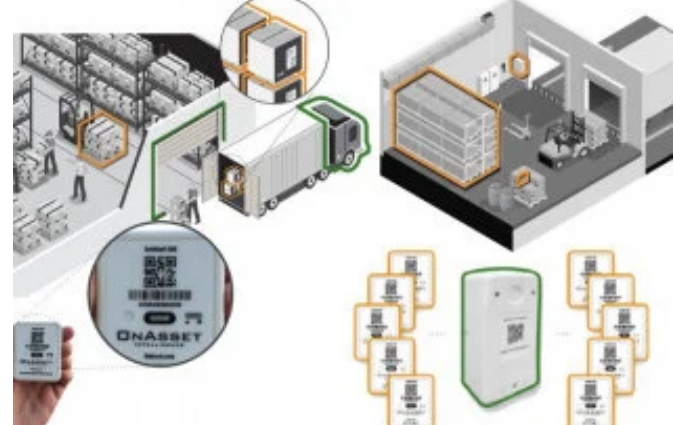
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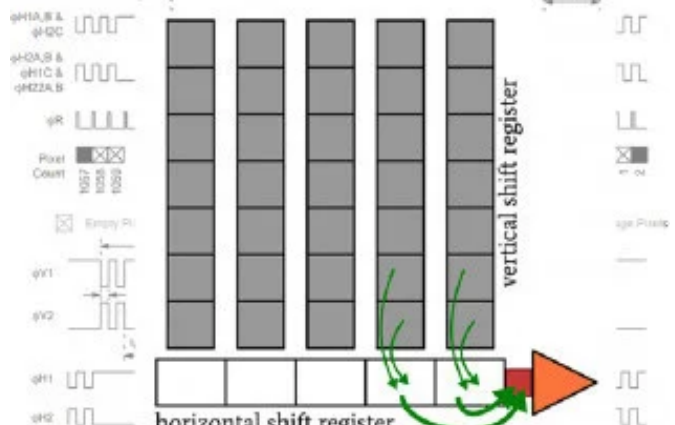
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