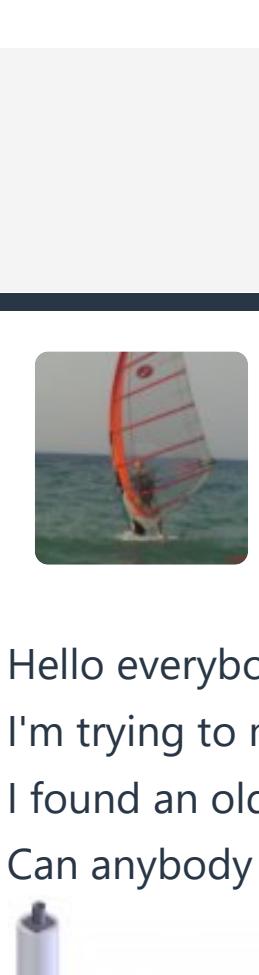


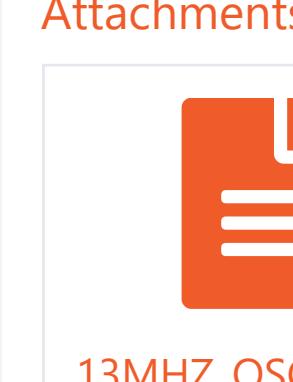
Capacitive height sensor

[Reply](#)

Thread Starter
cnc_freak
 Joined Oct 7, 2015 13 Oct 7, 2015

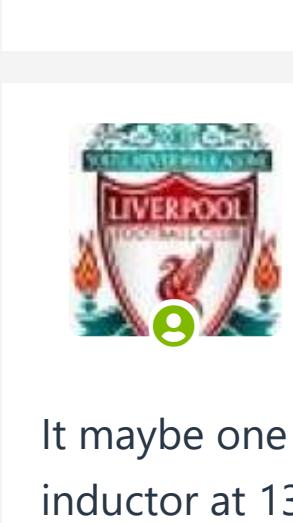
#1

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 find 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.

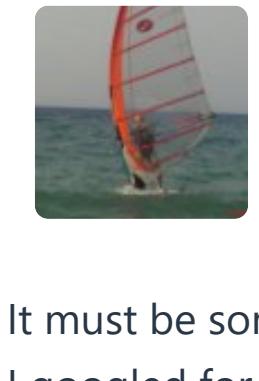


Any help will be appreciated.

Attachments



13MHZ_OSC.jpg
993.7 KB Views: 26

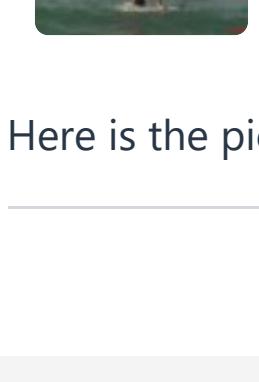
[Like](#) [Quote](#) [Reply](#)

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)

NECESSITY IS THE MOTHER OF INVENTION !

[Like](#) [Quote](#) [Reply](#)

Thread Starter
cnc_freak
 Joined Oct 7, 2015 13 Oct 7, 2015

#3

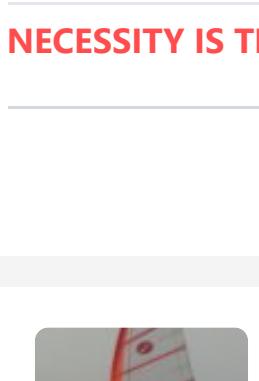
It must be something like that, but where can i find it, and what should i look for.
I googled for HF transformer 13Mhz, and i looked also at digikey, they have a big selection of variable coils but i have no clue about the inductance i must look for. The only think i know that the in parts list of the 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.

[Like](#) [Quote](#) [Reply](#)

Thread Starter
cnc_freak
 Joined Oct 7, 2015 13 Oct 7, 2015

#4

Here is the picture, i find it.

[Like](#) [Quote](#) [Reply](#)

Thread Starter
cnc_freak
 Joined Oct 7, 2015 13 Oct 7, 2015

#5

The board...

[Like](#) [Quote](#) [Reply](#)

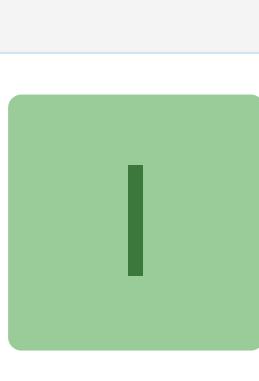
Dodgydave
 Joined Jun 23, 2012 8,983 Oct 11, 2015

#6

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

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

NECESSITY IS THE MOTHER OF INVENTION !

[Like](#) [Quote](#) [Reply](#)

Thread Starter
cnc_freak
 Joined Oct 7, 2015 13 Oct 11, 2015

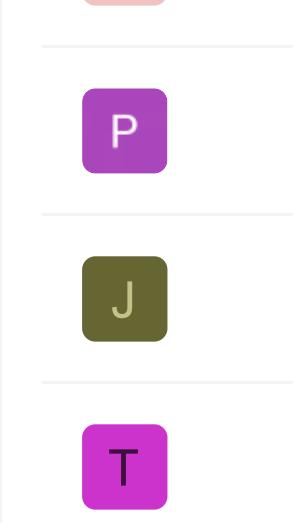
#7

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 150 μ H and a secondary of 12 μ H 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



DSCF2755.JPG
780.2 KB Views: 15

[Like](#) [Quote](#) [Reply](#)

Thread Status: Hello Iwanow, The last response in this thread was more than 365 days ago.

It is very likely that it does not need any further discussion and thus bumping it serves no purpose. It may be more appropriate to create a new thread with your question, and provide a link to this thread. If you feel it is necessary to make a new reply, you can still do so though. Your post will be reviewed and possibly be deleted.

Remember the human - Be courteous when replying to others.

[Attach files](#)[Post reply](#)[Preview](#)

Similar threads

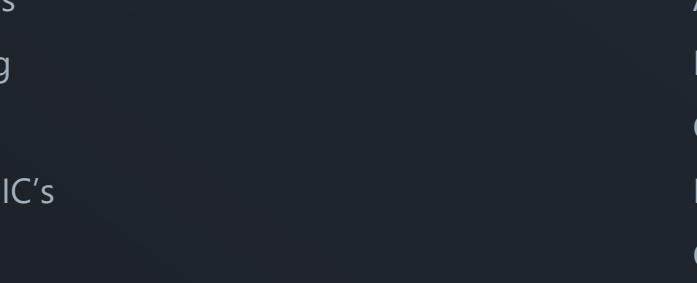
Forum

Replies

Date

	Capacitive voltage divider problem	Power Electronics	11	Apr 21, 2020
	Capacitive touch sense switches	Sensor Design & Implementation	9	Mar 25, 2020
	Dimmable capacitive touch	Sensor Design & Implementation	3	Feb 11, 2020
	what hardware/AD converter for 20 capacitive sensors with raspberry pi	Microcontrollers	4	Jan 31, 2020
	Capacitive torch height controller issue	General Electronics Chat	0	Oct 11, 2015

YOU MAY ALSO LIKE



Samsung and LG Exit the LCD Market. Quantum Dots and Organic LEDs Take the Stage

by [Gary Elinoff](#)



A Feat for Connected Warehouses, Sensors Read 12,000 Bluetooth 5 Tags in 60 Seconds

by [Gary Elinoff](#)



CCD Binning in Imaging Systems: Increasing Signal-to-Noise Ratio and Frame Rate

by [Robert Keim](#)



"Honey, I Shrunk the NASA Payload": A Call for Engineers to Help Send Mini Rovers to the Moon

by [Gary Elinoff](#)

PRODUCTS

Latest

Analog

Optoelectronics

Connectors

Passives

Cooling

PCB's

Digital IC's

Power

EDA Tools

IC Design

RISC-V

Electromechanical

Sensors

Embedded

Test & Measurement

Memory

Wireless/RF

[View All >](#)

APPLICATIONS

Audio

IOT

Automation

Lighting

Automotive

Computers & Peripherals

Military / Aero / Space

Cloud Computing

Motor Control

IT / Networking

Security / Identification

Consumer Electronics

Smart Grid / Energy

Industrial

Telecom

[View All >](#)

CONTENT

BOM Tool

Calculators

Datasheets

Giveaways

Industry Articles

Industry Training

Industry Webinars

IC Design Center

News

Part Search

Podcast

Projects

Reference Designs

Tech Chats

Technical Articles

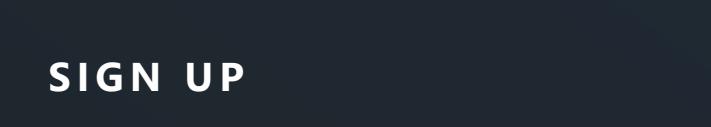
Test Equipment

Textbook

Video Lectures

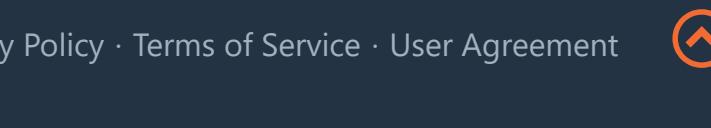
Worksheets

WHO WE ARE



More about us →

CONNECT WITH US



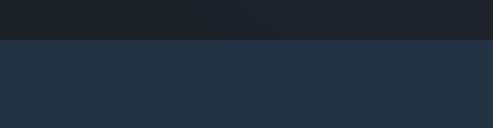
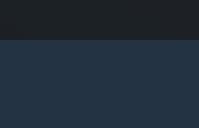
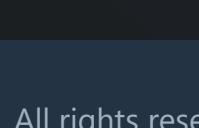
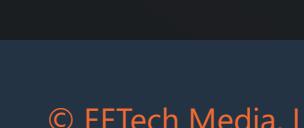
Contact Us

Advertise

Write For Us

Newsletters

MORE FROM OUR NETWORK



SIGN UP

Enter your email address

[Register](#)