

Gradient coil tests

Part 1

https://www.youtube.com/watch?v=QM_rFmKsQFA

made according Stalker data

length 48m

wire diameter 2.4mm

285 turns

$L = 194\mu\text{H}$ calculated, 192 measured

test with pirometer showing higher temperature in the region of reverse turns
can feel something with hand also

Part 2: One more coil

<https://www.youtube.com/watch?v=iOdaFkC61zg>

length 47m

wire diameter 2.4mm

279 turns

$L = 184\mu\text{H}$ calculated, 188 μH measured

just to test results

test with pirometer again showing bigger temperature even with coil not connected anywhere
can feel something warm with hand also

Part 3: testing with fluorescent lamp

<https://www.youtube.com/watch?v=z89BTOyqSxE>

rings on the lamp stops at 1.501MHz

Part 4: test with signal generator

<https://www.youtube.com/watch?v=0B1oZJQQm8Q>

5 turns inductor

LC resonance frequency 1450.1KHz

beatings on the scope

note from translator: this typically seen when LC and wave resonances are close, can be used to locate them

Part 5: wave resonance on scope

<https://www.youtube.com/watch?v=fuq0p5A00jQ>

it seems to correspond to dim rings on fluorescent lamp

From comments to this video



ВАсилий Пуп4iK 1 year ago

@Vyacheslav Maksimov Для начала можно и сталкера установку делать! но посмотрите сначала эксы Димы , Dmitry Maksimov он там все разжевывает! У меня больше 2 квт по осталкеру не вышло к сожалению! есть куча нюансов с гранатой там

For beginning it worth to build Stalker's device. Take a look on Dmiri Maksimov's experiments, he explains everything in details. I didn't manage get more than 2KW from Stalker's device. There are lots of nuances with gradient coil.