

Hi Ken,

I am forwarding the email from Alan Douglas with his measurements of the original 59LF coils, along with a picture he sent.

I also attached the final configuration of my coils. My main coil values came out very close to Alan's measurements, but I ended up putting the coils together, with the trim caps before measuring the final values of all the coils.

Regards,

-Joe

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Hi Joe,

Thanks for sharing the excellent photos. If you could provide a table of the inductance values, I think that the photos plus the values might make a nice addition to the 59LF collection.

Thanks again,

> To: Joe Sousa <JLRMSousa at Comcast.net>

> From: Alan Douglas <adouglas at gis.net>

> Subject: Re: 59LF Megacycle Meter

> X-Rcpt-To: <JLRMSousa at Comcast.net>

>

> Hi,

> Photo enclosed. This is as far as I can open the coil forms without

> unsoldering the wires. Coils are universal-wound on ferrite slugs 7/8"

> diameter, maybe an inch long. They're held on with wax and I can't count turns. Inductances (1 kHz) as follows, in microHenries:

>

> pins 1-2   pins 3-4   pins 3-5

>

> A: 59,      5000,      22.

>

> B: 5.5,      900,      2.2

>

> C: 2.8,      200,      11.6

>

> D: 1.9,      27,      \*

>

> \* = can't read because of 1k resistor in series.

>

> I presume you have the schematic, but pin 3 is the cold end of the coil,

> hot end to pin 4, tap to pin 5. Feedback winding is 1 and 2.

>

> A .1-.25MHz, B .25-.55, C .55-1.5, D 1.5-4.5.

>

> The basic coil forms are by Na-Ald (Alden), standard stuff in the 1930s

> and 40s.

>

> Alan

www.PhilbrickArchive.org

A free repository of materials from

GAP/R, George A. Philbrick /Researches.

Operational Amplifier Pioneer.

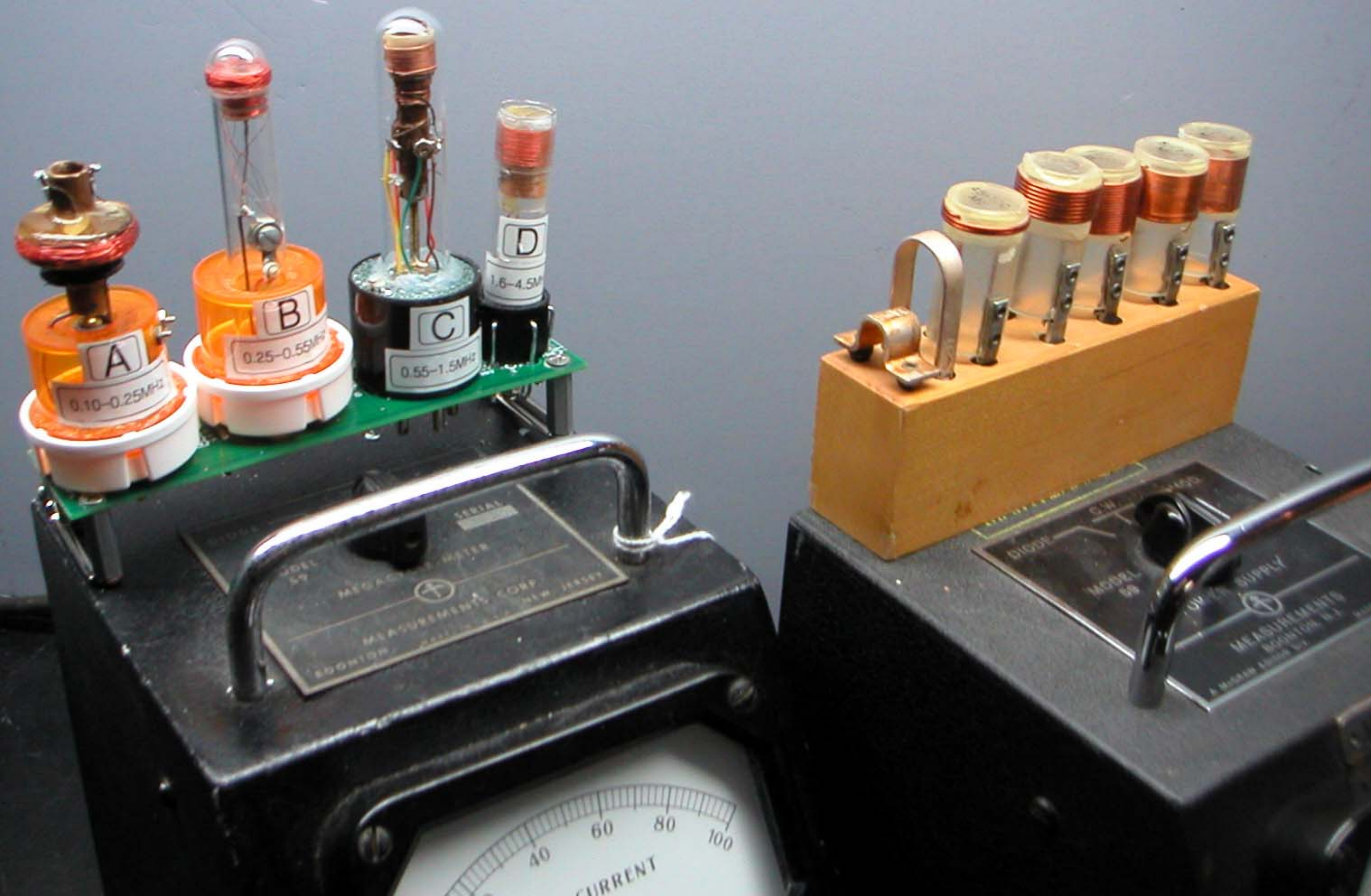








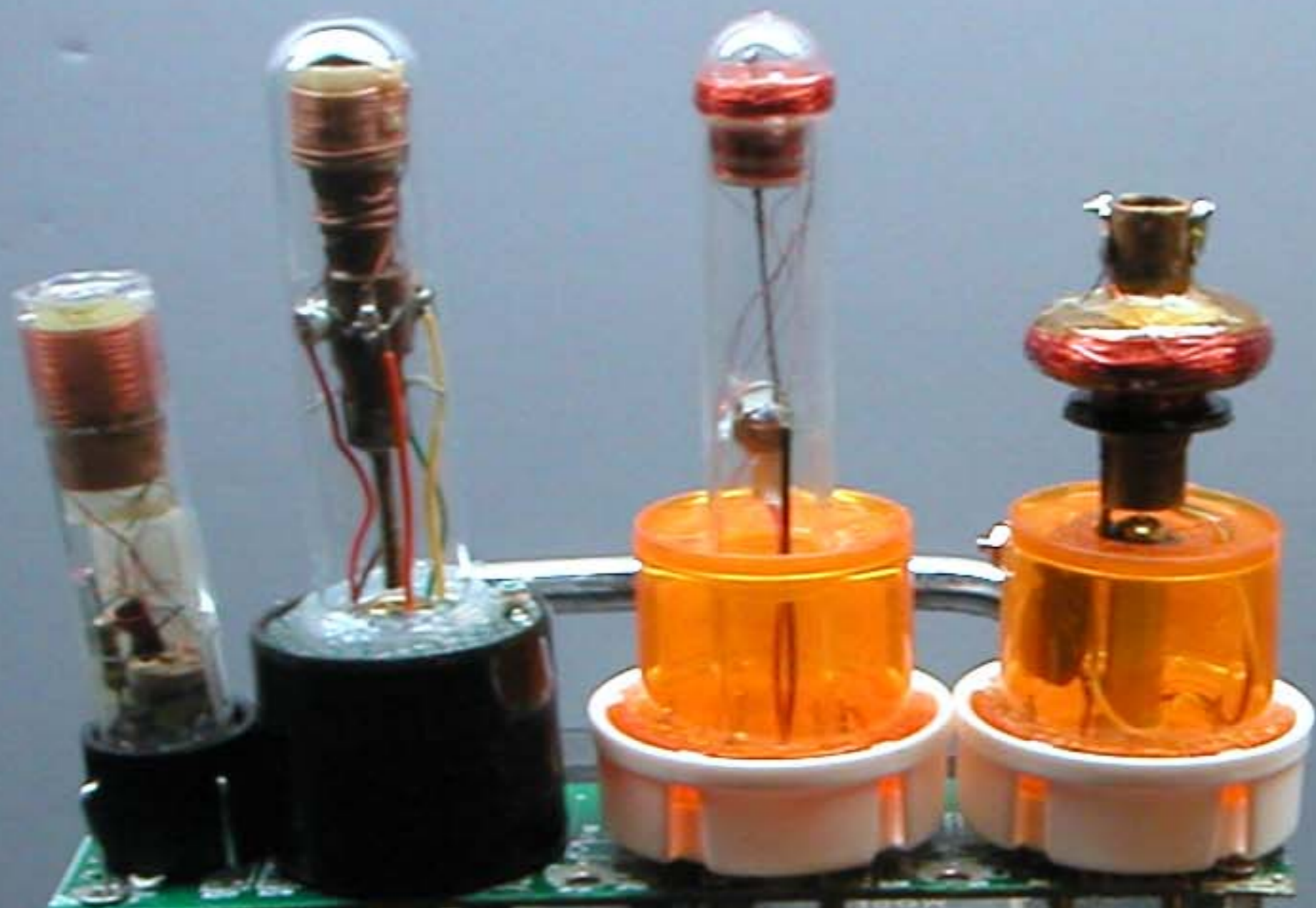
















A

0.10-0.25MHz

B

0.25-0.55MHz

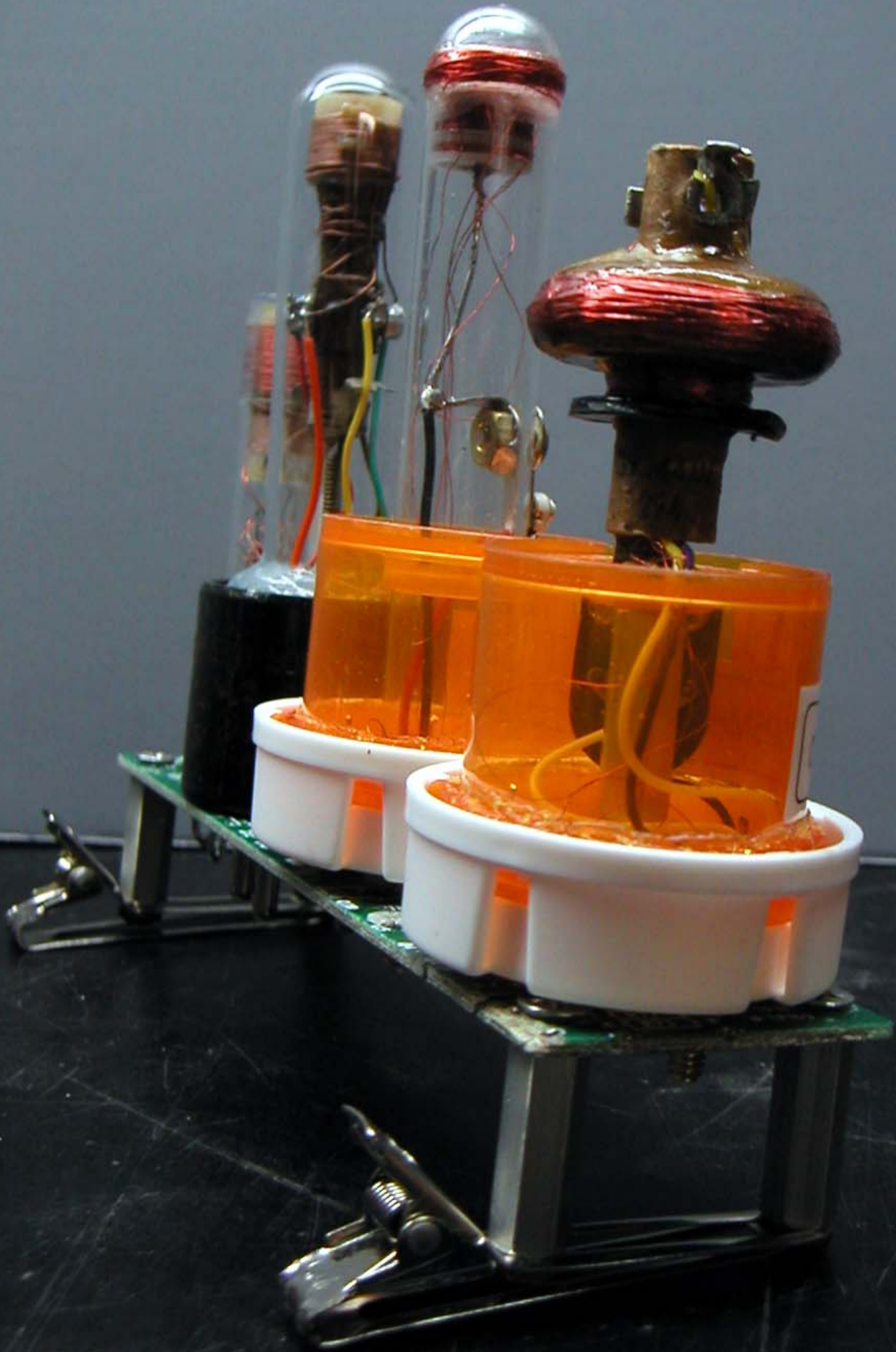
C

0.55-1.5MHz

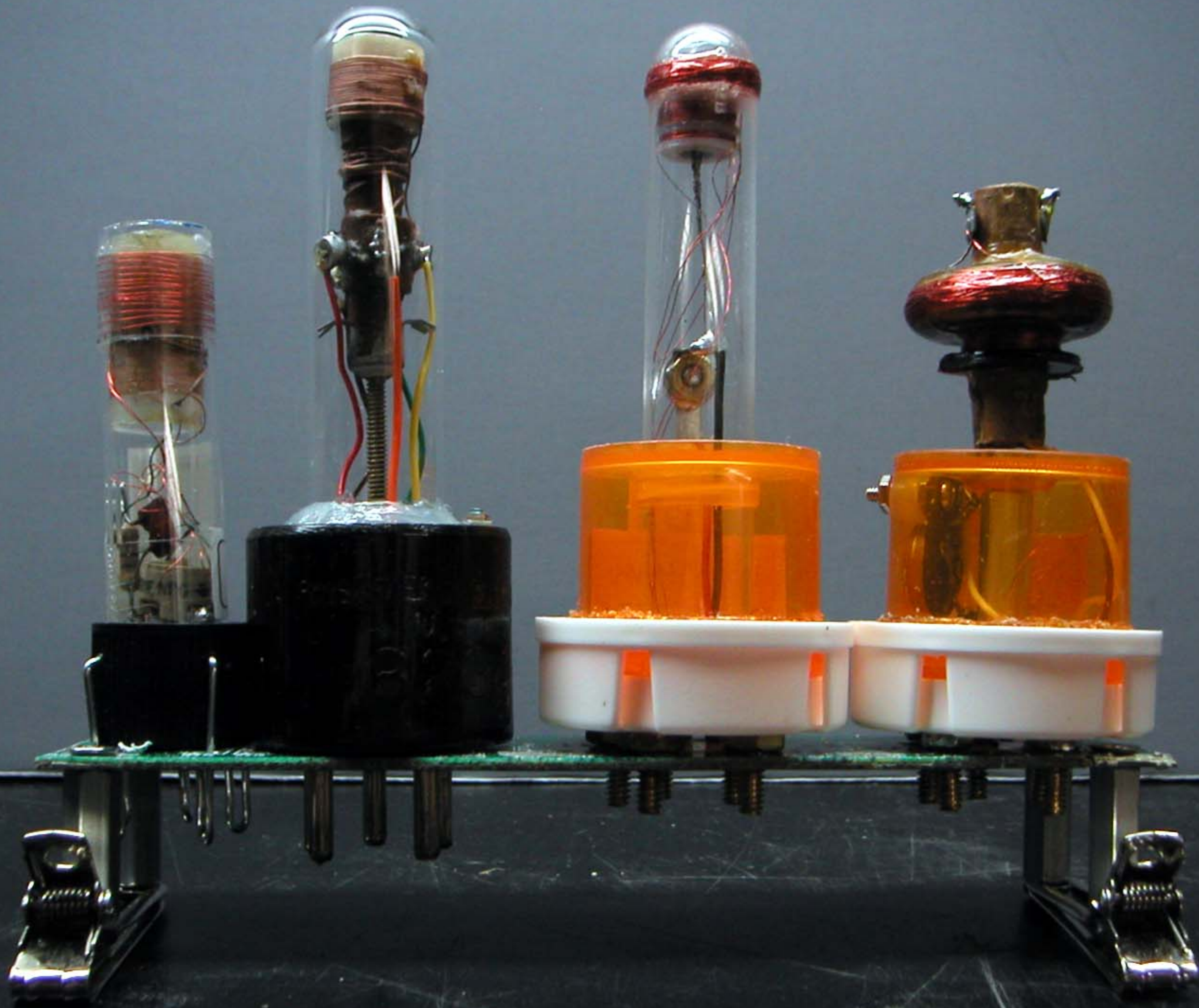
D

1.6-4.5MHz

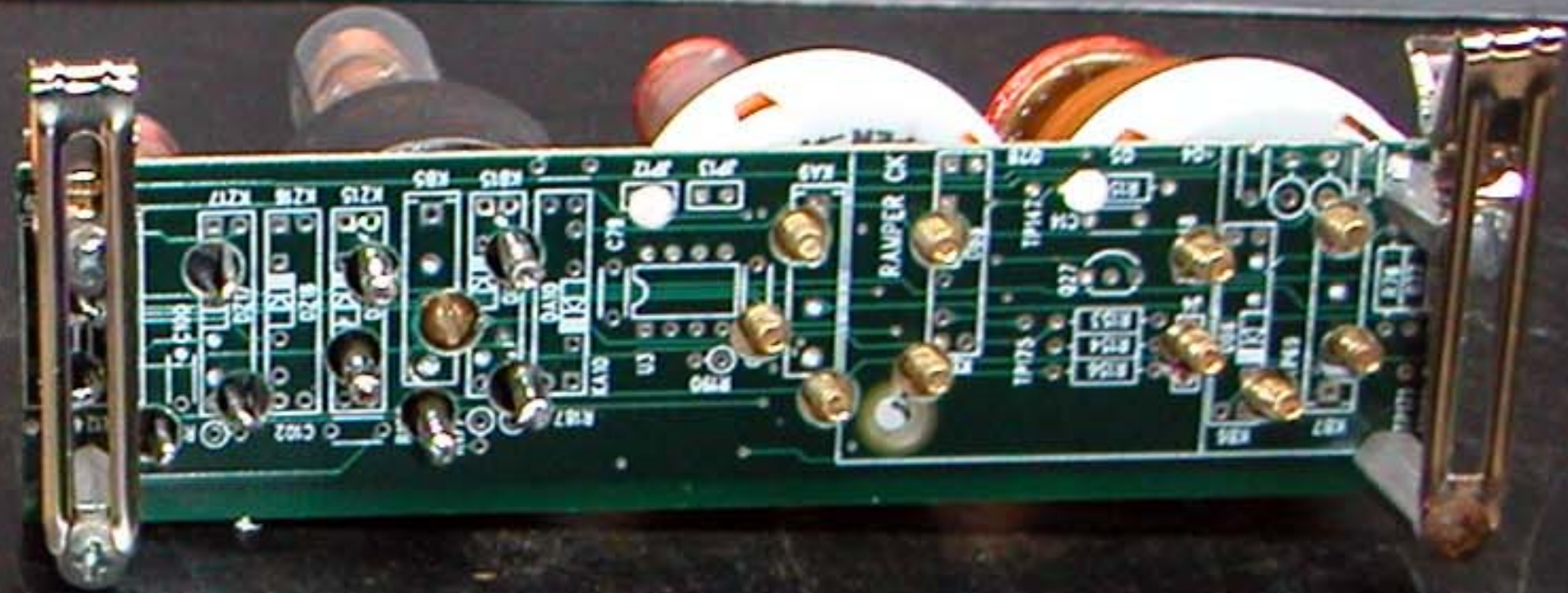
















A  
0.25MHz

B  
0.55MHz

C  
1.5MHz

D  
4.5MHz

MEASUREMENTS CORP.  
LONDON, NEW JERSEY

SERIAL 5565

GRID CURRENT

0 20 40 60 80 100

MEGACYCLE METER

0 20 40 60 80 100

Handwritten note on a tag attached to the grid current meter.



Boonton  
59LF

MEGACYCLE METER



MODEL 59LF

SERIAL 1288

REFER TO  
M-503  
MEASUREMENTS  
CORP.  
BOONTON, N.J.

Boonton 59



SER. J4  
MEGACYCLE  
METER





