

GLOUCESTER COUNTY AMATEUR RADIO CLUB, INC.
(W2MMD)

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CLUB * * * * * NETS

10 Meter RTTY 28.100 Thur. 8:00PM
10 Meter SSB 28.930 call anytime
80 Meter CW 3.680 " "

2 Meter FM 147.18/78 Sunday 8:00PM
6 Meter AM 50.9 ~~Sunday~~ 9:00PM
80 Meter CW 3.705 call anytime

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The regular meeting of the GCARC, is the second Wednesday of each month in the National Park Municipal Hall, National Park, NJ. Meeting time is 8:00 P.M.

TV HIGH PASS FILTER by K2JF

The filter shown here is designed for 70 ohms input output impedances. In many new TV receivers the manufacturers of the better receivers are trying to reduce CB interference. They are doing this by transforming the 300 ohm twin lead TV antenna leadin to 70 ohm coax within the set itself. The coax is usually connected from the 300 ohm terminals through a 4:1 balun with 70 ohm coax directly to the tuner.

This filter is designed to be inserted into this coax line and mounted as close to the tuner as possible.

This filter is designed for operation within the 1.8 to 30 MHz Amateur bands. It will not work for 6 meters.

One of the major causes for TVI is known as FEOL or Front End Overload.

In the newer type receivers the tuners and most of the amplifying stages are composed of semi-conductors. Because of the "nature-of-the-beast" semi-conductors are non-linear devices, and as such, are very susceptible to intermodulation and parasitic radiation when excited by large signals; thus it is necessary to limit the amount of signal that will be presented to those devices.

A high-pass Filter having a minimum of 56 db attenuation is necessary when associated with most amateur stations whose transmitted signal is equal to or exceeds 200 watts of power output. The filters that are given by the setmanufacturers are generally 40 db at Channel 2 and 6db per octave thereafter, for CB operation this is quite adequate.

This filter was built in a bud box, 54mm wide X 64mm long X 44mm high. The components were laid out on Bectorboard and mounted spaced for maximum effect. The sketches dotted lines, are #18 AWG solid wire laid between the coils as Faraday shields.

All the capacitors are Dipped Micia, about 30 cents apiece and the Delven type #1025 molded coils are also about the same price. All material can be obtained from general Radio in Camden. The ground line must be at least 3 component leads soldered together for a minimum resistance path to ground. All the values given in the diagram are standard values, as close to the calculated values as possible. In the final design the input and output orifices were BNC female connectors; however, any output system may be used provided the minimum exposure of unshielded leads is maintained.

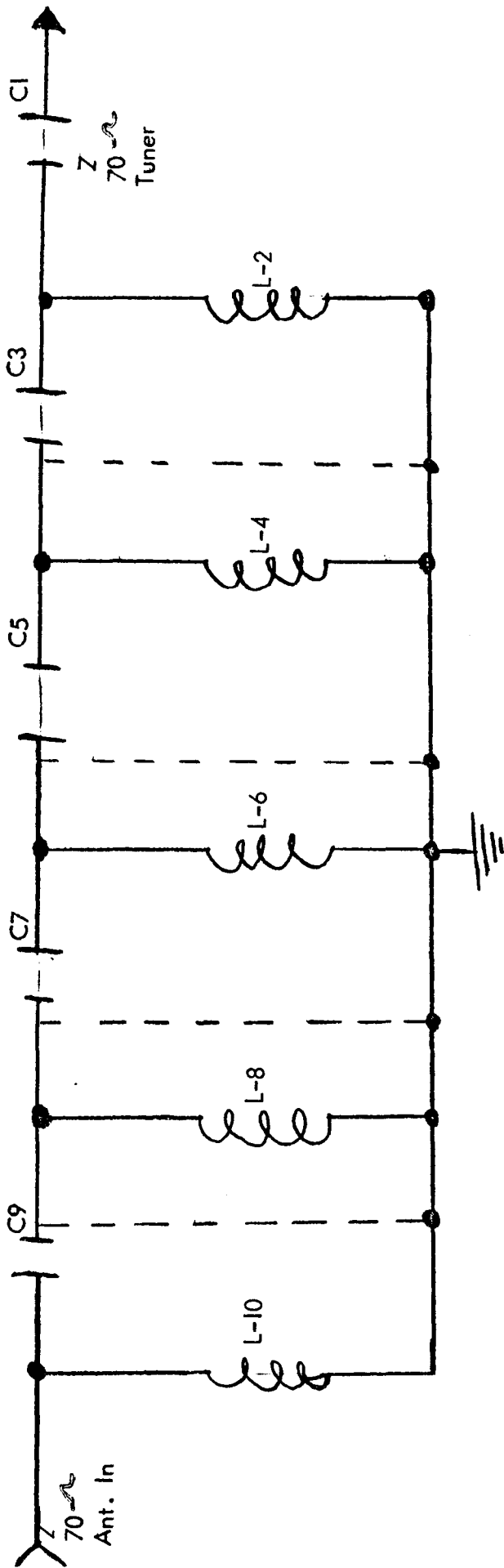
This particular High Pass filter is based on a Chebyshev configuration giving a calculated attenuation at 28.5 MHz of -58.5db. It was measured to be -55.25db. The Frequency of cut-off is 56MHz. Attenuation at Channel 3 is .355db and less the higher the frequency.

For those who are interested the calculations are available.

Good Luck

John/K2JF

TV RECEIVER HIGH PASS FILTER
K2JF



- C₁ - 129.75 - 130 pf
- C₃ - 28.7 - 27 pf
- C₅ - 20.55 - 20 pf
- C₇ - 22.78 - 22pf
- C₉ - 44.71 - 43 pf

- L₂ - .2191 - .22uh
- L₄ - .1116 - .1 uh
- L₆ - .1006 - .1 uh
- L₈ - .14 - .14uh
- L₁₀ - .6356 - .56 uh

ALL CAPACITORS DIPPED MICA
ALL COILS MOLDED TYPE.
PURCHASED AT GEN. RADIO

ANY ONE COPY ? scratch , crackel , pop

It seems like every other person you talk to now-a-days on the two meter band is using a Handi-Talkie. After a lot of thinking and figuring out what I could sell to get the money, I bought a new Handi-Talkie at our Hamfest.

I have to admit that as soon as I put the batteries in, I felt just like one of the gang. The batteries were dead ! Things really started looking up, after I fixed the short in my new battery charger. I was mobile and got my first bad signal report using the rubber duck. (scratch, crackel)

What was really great fun was going from room to room in my house trying to find a place to hold a QSO. After some time I came up with a very good spot, so if you ever call me on .18 give me a chance to get to it. I have the time down to one minute to get the ladder out and get to the peak of the roof. (scratch scratch)

I can't wait until I get my leather holster.

DE AB2W

HELP WANTED AD

Consulting engineering firm seeking persons to train in communications system designs W/car telephones and paging systems, Willingness to learn, ability for detail and accuracy. Nonimal math, computer helpful, ability to deal with people and function as account manager with clients. Technical exposure helpful. South Jersey area, near hi-speed line. Send resume, including educational background, experience and salary requirements to: C.L. Harvey,

FOR SALE

Dentron Super Tuner: 160 - 10 meters. MINT. \$100 - , Pete/WB2OON

RCA, 10 meter transceiver (CB co-pilot) SSB & AM . W/hystler ant. and mount. \$160.
100 watt amplifier for above or for CB. \$75. Jack/AB2W

Hallicrafters, HA-1 T.O. Keyer. to 65WPM. \$35. AB2W

Anyone haveing a manual for a Hallicrafters HT-41 linear amplifier, or if you know someone who has one, please contact Bill/KB2GF. Call anytime,

FOR SALE : Icom 22A, 2M, FM. Jack/AB2W

SCM NOTES

July was a slow month and so it seems a good time to review the Emergency Coordinator (EC) and local net situations. The EC in each county runs the local ARES program in that area. Each county has an ARES net that meets at least weekly. For further information please contact the EC for your county. They are:

Atlantic	Ed, W2KP	Cape May	Bud, AG20	Mercer	Al, AA2H
Burlington	George, K2QIJ	Cumberland	Chris, K2OG	Ocean	Bob, K2IB
Camden	Bob, WA2ONW	Gloucester	Harry, WA2SEA	Salem	Don, WB2ZJF

Southern New Jersey was ranked not only number ONE in our class (9 EC's or less), but also number ONE in any class. That's right, our ARES is number ONE in the nation!!! Not bad, eh? The reason for this, of course, is the general ARES membership. We have a very dedicated crew of over 400 ARES members in SNJ. But there is more than a few thousand who are Not members. We need everyone. Why not contact your county EC right now to find out how you can fit into the action?

While I'm expousing the values of public service work I might as well review the local traffic net situation. SNJ has four local traffic nets, and they are a good place to learn how to handle traffic, net procedure and get involved in public service work. They are:

Jersey Shore Amateur Radio Society Net (JSARS)
8:30 pm daily, 146.21/146.91 (Toms River)
serves Ocean County

Mercer County Net (MCN)
10:30 pm daily, 147.675/147.075 (Robbinsville)
serves Mercer County

Shore Points Amateur Radio Traffic Net (SPARTN)
10:30 pm daily, 146.34/146.94 (Brigantine)
serves Atlantic, Cape May and Cumberland Counties

South Jersey VHF Net (SJVN)
10:30 pm daily, 144.67/145.27 (Roxborough)
serves Burlington, Camden, Gloucester and Salem Counties

These nets are an excellent source of training and are relatively painless to check into. Why not fire up the old two meter FM rig tonight and join us? You won't be sorry!

Bill Luebkeermann WB2LCC
SCM-SNJ

PROPAGATION FORECAST SEPTEMBER 15 TO OCTOBER 15

Well our cycle 21 is still in there and still going strong giving us some real nice smoothed sunspot numbers. The present cycle will give us a smoothed sunspot level of about 147 for September and about 150 for October. As you know the sunspot cycle is measured by the level of smoothed sunspot activity from the high number to the lower number for a month and then is averaged over the year.

This time period will give the "bob" to the 15 meter band for the best daytime DX, however, there will be 20 meters after sundown. 20 will become your band but, don't overlook 40 for late DX. As the atmospheric noise begins to drop in late September and early October when 80 and 160 will come alive toward midnight and last pretty much thru the dark time YSTIARFI.

This time period, 10 will start its comeback from its sleepy summer doldrums, so you QRP mobile 10 meter buffs put those sets back in the cars.

Just for information, I have collected the calls or names and have published them. 85 amateurs in our local area have converted CB/10 rigs. 35, 80 channel SSB/AM and 50, 23 channel AM sets, so lets go!

Major openings for the autumnal equinox will be coming from the southern area of the globe. So. Amer., So. Pac., Australasia. Twenty, fifteen and ten will benefit most during the daytime, but 40 and 80 will go into the Caribbean at night.

For the VHF fellow (Ray WB2LNR) the F-2 layer DX is here and should give good results to most parts of the world. The equinoctial time is most good for the 6 and 2 meter bands. Auroral activity is good at this time so 2 meters short skip is a very good possibility. Look for radio storms and again check TV channels 2 and 6.

TECHNICAL NEWS ITEM

A long-range radio communications experiment, using the ionosphere as a transmission duct, is being planned by American and Australian scientists. Instead of using the ionosphere to reflect radio waves beyond the horizon, as is done conventionally, this experiment will inject high frequency radio waves into the stratum, where they will be confined as they travel to a receiving station on the other side of the world. Near the receiver, the ionosphere will be artificially disturbed by a second beam of powerful radio energy directed vertically into the stratum from a nearby ground transmitter. The project is under the direction of California's Stanford Research Institute and Australia's Defense Department.

John/K2JF

A note to all. An article related to the above news item is in September 1979 QST, page 22. BENEFICIAL READING.

PROPAGATION FORECAST CONTINUED
all times Pitman time

<u>160</u>	Europe Australasia Caribbean	2200-0100 0500-0600 2300-0400	<u>15</u>	Europe USSR Mediterranean Africa Asia Far East So. Pac. New Zeal. Australasia - Caribbean-So. Amer. Antarctica	1100-1530 0830-1630 1200-1430 1300-1900 1300-1500 0900-1030 1830-2030 1700-2100 1000-1230 1800-2000 0800-2030 1700-2100
<u>80</u>	Europe So. Pac. New Zeal. Australasia Caribbean-So. Amer.	- 2100-0300 0300-0600 0600-0700 2100-0600	<u>10</u>	Europe Africa So. Pac. New Zeal. Australasia Caribbean-So. Amer.	- 1100-1300 1200-1700 1500-1900 1700-1830 1000-1800
<u>40</u>	Europe So. Pac. New Zeal. Australasia Caribbean	- 1900-0400 0200-0800 0400-0800 2000-0700	<u>20</u>	Europe USSR Mediterranean Africa Far East So. Pac. New Zeal. Australasia - Caribbean-So. Amer. Antarctica	- 0600-2100 0800-1700 1700-0100 1700-0030 0800-1000 2200-1000 0900-1100 2330-0230 0500-0300 (no good 1000-1500) 2000-0300

HF Good Days: Sept. 1, 15-18, 20-21, 26-29.
Oct. 12-15.

VHF Good Days: Sept. 5, 13, 16, 23, 27.
Oct. 7, 13, 15.

EXTRA Good Days Generally Above Normal: Sept. 16, 27.
Oct. 13, 15.

Good DX, Bon Chance
vy 73, K2JF/John

K2JF's Ten Meter Mobile Totals = 88 countries
67 confirmed
46 states
45 confirmed

GLOUCESTER COUNTY-A.R.C.

OCTOBER 13, 1979 7 PM

20th

ANNIVERSARY BANQUET

BROILED SEAFOOD COMBINATION \$15.00

ROAST PRIME RIB OF BEEF \$14.00

TROPICAL FRESH FRUIT CUP ~ NEW ENGLAND CLAM CHOWDER

SALAD ~ CREME DE MENTHE PARFAIT ~ COFFEE ~ MILK ~ TEA

MUSIC ~ DANCING ~ CASH BAR ~

STEVE SOSSON

TICKETS & INFO →