

# THE PROPAGATOR

MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO SOCIETY.

P.O. Box 1838. WOLLONGONG. N.S.W. 2500.

IARS is a Member Club of the Wireless Institute of Australia.

<u>PRESIDENT</u>	<u>SECRETARY</u>	<u>EDITOR</u>
Keith Curle, VK20B 24 Beach Drive Woonona 2517	John Doherty, VK2NIA, 7 Risley Road FIGTREE 2525	Keiran Kennedy 166 Osbourne Parade WARILLA 2528

MONTHLY MEETING Held on the Second Monday of each Month, at 7.30pm.

CLUB STATION - VK2AMW. CLUB REPEATER - VK2RAW, 2m, Channel 5.  
VK2RUW, 70cm, Channel 1.

### LARS MONTHLY BROADCAST

The Monthly Broadcast takes place on the Sunday preceeding the Meeting Night each month, at 1900 Hours EAST.

Frequency used by VK2AMW for the broadcast is -  
Repeater Channel 5, or Simplex Channel 40.  
Relay on 28.460 Mhz, 20 cm Channel 1.

### LARS CLUB NETS

6 Metre. 8.30am Sunday, 52.525 MHz FM.  
10 Metre. 8.00pm Sunday, 28.460 MHz USB.

OCTOBER  
OCTOBER  
OCTOBER  
OCTOBER

### THIS MONTHS MEETING

**MONDAY, October 8th.**

### ===== This months meeting:- =====

Harry Mead VK2BJL will show slides and give a talk on DX expeditions to MELLISH REEF and SPRATELY ISLAND.

### LOCATION - NOTE

WILL BE HELD IN THE CONGREGATIONAL HALL  
COOMBE STREET WOLLONGONG  
(opposite old post office)



MACELEC PTY. LTD.

Professional & Industrial  
Electronics



\* \* NEW PRODUCTS \* \* - \* \* NEW LOW PRICES \* \*

<u>KENWOOD</u>	TS520S - H.F. Transceiver.....	\$ 650.00
<u>KENWOOD</u>	TS820S - H.F. Transceiver.....	\$ TBA.
<u>KENWOOD</u>	TS120V - H.F. Mobile 10watt output.....	\$ 530.00
<u>KENWOOD</u>	TS120S - H.F. Mobile 100watt output.....	\$ 760.00
<u>KENWOOD</u>	SM220 - Station Monitor.....	\$ 375.00
<u>KENWOOD</u>	AT200 - Antenna Tuning unit/SWR.....	\$ 185.00
<u>KENWOOD</u>	AT120 - Antenna Tuning unit/SWR.....	\$ 120.00
<u>KENWOOD</u>	R599 - H.F. Receiver.....	\$ 235.00
<u>KENWOOD</u>	TR7200G 2M 10watt Mobile c/w ch 2,4,6,8,40,50..	\$ 175.00

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<u>KYOKUTO</u>	2M Mobile 15 Watts - 4 memories - Auto Scan - Digital P.L.L. -RIT.....	\$ 360.00
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<u>DRAKE</u>	"Century-21" Communications Receiver 0.5 to 30MHZ -AC/DC AM CW SSB.....	\$ 325.00
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<u>DRAKE</u>	UV3 VHF-UHF FM Fully Synthesized System. 5KHZ Steps - Double Conversion 10.7MHZ - 455 KHZ 6 pole Crystal Filter @ 10.7MHZ and 8 Pole Ceramic Filter @ 455 KHZ. 25 Watts Output VHF 10 Watts UHF.	
	Model 1340 144-148 MHZ.....	\$ 760.00
	Model 1345 144 and 432 MHZ.....	\$ 1070.00

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<u>NAGARA</u>	V5JR 80-10M Trapped Vertical.....	\$ 150.00
<u>CUSHCRAFT</u>	2 Metre Ringo Ranger.....	\$ 49.00

We Also Stock A Wide Range Of Test Equipment. Power Supplies,  
Technical Books etc.  
We are now South Coast Distributors for SKYBAND Antennas.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



JAMBOREE ON THE AIR

The 1979 Jamboree on the Air will be held from 0000hr. on 20th of October to 2400hr. on the 21st of October GMT. Amateurs all over the world will be assisting Scouts to make contact with each other during this week-end.

The club is manning the Bass Point site from 0900 Saturday to 1700 Sunday(local time), using the club callsign VK2AMW portable. Saturday morning is devoted to the erection, with assistance from the Scouts, of aerials and tuning them up. To enable some semblance of order to prevail, a schedule has been drawn up indicating possible bands to be used. Please fill in your callsign / name and details of any equipment that you could provide. Bring this completed schedule along to the next club meeting and give it Les. VK2ALK. If you are unable to provide any equipment, but are able to do some operating please also indicate. If the last few years are any indication, then a good time should be had by all those participating.

Local Time	Bands											
Saturday :	80	:	40	:	20	:	15	:	10	:	2	:
0900-1200 :	e.g. VK2ALK Trapped H.F. Vertical											
ERECT AERIALS	:	:	:	:	:	:	:	:	:	:	:	:
1200-1500 :	XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
1500-1800 :	XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
1800-2100 :	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
2100-2400 :	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
Sunday :	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
0000-0300 :	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
0300-0600 :	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
0600-0900 :	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	:	:	:	:
0900-1200 :	XXXXXXXXXX:	:	:	:	:	:	:	:	VK2ALK	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	TS120V	:	:	:
1200-1500 :	XXXXXXXXXX:	:	:	:	:	:	:	:	VK2ALK	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	TS120V	:	:	:
1500-1700 :	XXXXXXXXXX:	:	:	:	:	:	:	:	VK2ALK	:	:	:
	:XXXXXXXXXX:	:	:	:	:	:	:	:	TS120V	:	:	:
Any other comments -												

THIS PAGE IS SET ASIDE FOR ANYONE WHO MAY WANT TO CONTRIBUTE  
AN ARTICLE IN THE PROPAGATOR.

REMEMBER: THE PROPAGATOR WILL ONLY BE AS INTERESTING AS YOU  
"THE CONTRIBUTOR?" MAKE IT!

EDITOR.

## NOVICE SECTION

Last month VK2NVP (my Brother) and VK2VPD (myself) conducted some tests with a center-loaded 80 meter mobile antenna. The antenna used was mounted on a ski bar on top of a VW Superbug. The test was monitored by 3 stations, one in Ararat Vic, and one in Moree NSW, plus my own station in Port Kembla ofcourse.

One of the main problems was a noise level of 9 S points in the mobile unit (not surprizing for a VW).

The run was from Bondi to Port Kembla and back to Bondi. The copy here was fair from Randwyck, extremely good when he was on the Captain Cook Bridge, and fairly good for some reason at the F6 tollgates, but extremely poor to not at all at any other location in between until he came down the Bulli Pass. This was between 5pm and 7pm on a monday, with naturally a fairly high background noise at that time.

The trip back was at 1am and was more successful mainly due to drop in noise level. It was very interesting here to see that a strong signal was being received from the mobile station in both Ararat and Moree at all times on the return trip, with the exception of the time he was climbing Bulli Pass only. As for me, I had a strong signal with only a slight drop off for the time that he was between Pt K and the top of the Pass. After this, his signal dropped dramatically, and was difficult to copy though readable all the way this time to Bondi.

These findings tended to support the belief that the 80 meter mobile antenna has a high angle of radiation (explaining the copies in Ararat and Moree), and very little ground wave.

VK2VPD.

### Identification of Capacitors

It seems that identification of capacitors is not as easy as it used to be. Having had trouble myself and found others in the same boat it would appear that a little more publicity is worth while. If your capacitor reads 473K or similar, this is how you sort it out:

the first two numbers may be read as pF...=47

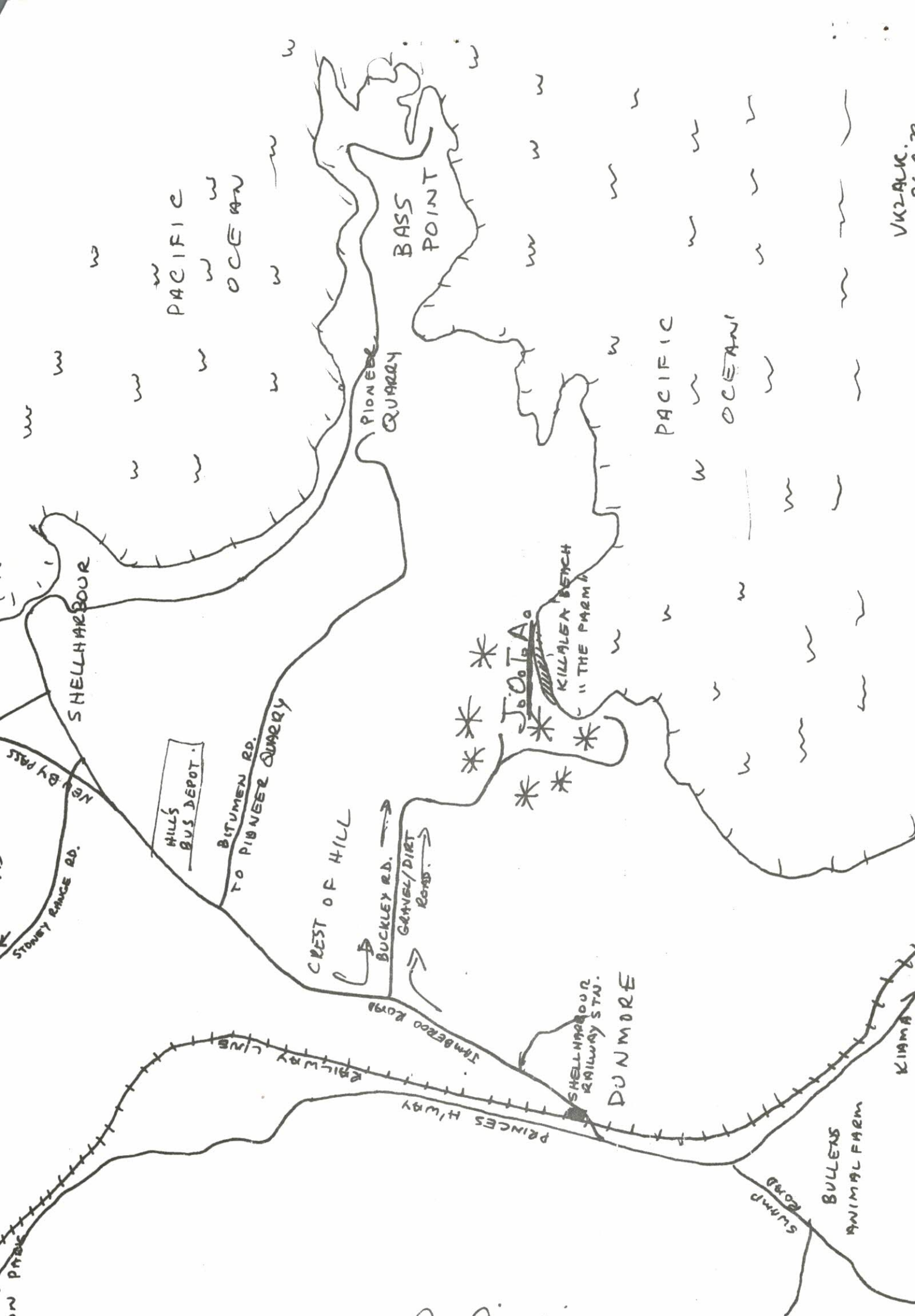
the next number is the number of noughts to add

...=47000pF

or .047uF.

The letter gives the tolerance: M=20%, K=10%, J=5%, & C=0.25pF  
The other number is the voltage rating, so there it is, easy when you know how.

VK2VGS.



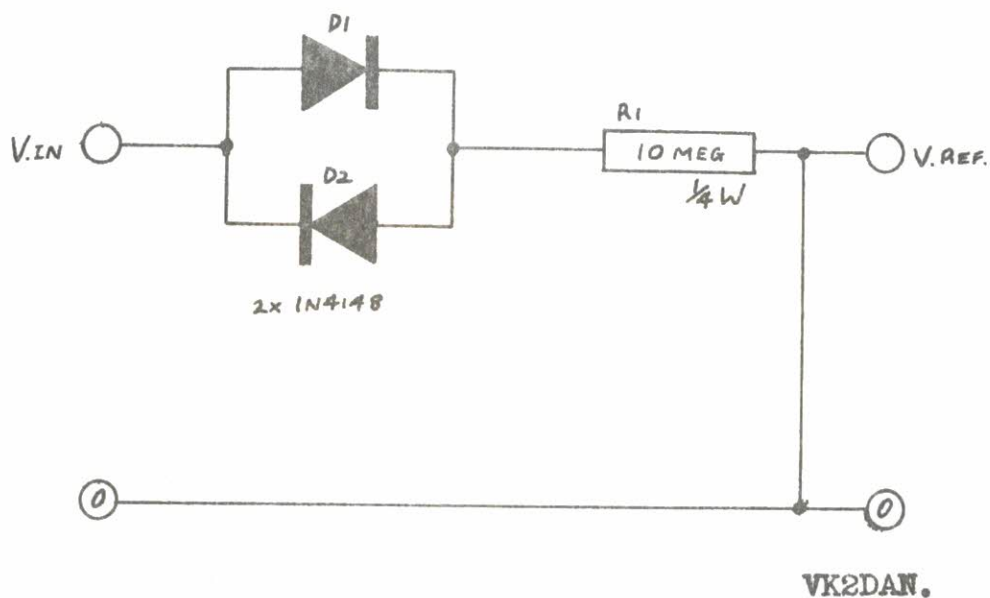
J. O. T. A.  
 MUD  
 MAP.  
 1979.

VK2-ALC.

THIS CIRCUIT WILL PROVIDE AN ACCURATE 0V REFERENCE OUTPUT. THE INPUT VOLTAGE CAN VARY BETWEEN -1000 V AND +1000 V WITHOUT DETRIMENT TO THE PRECISION OF THE REFERENCE OUTPUT.

THIS PARTICULAR DESIGN APPROACH IS A MAJOR IMPROVEMENT OVER THE MORE CONVENTIONAL CIRCUITS, IN THAT IT RESULTS IN AN EXCEPTIONALLY LOW OUTPUT IMPEDANCE WHILE AT THE SAME TIME BEING SHORT CIRCUIT - PROOF.

N.B. :- Last minute lab tests have shown that the performance can be improved still further by omitting D1, D2 and R1.



FOR SALE:

PYE Mark 3A AM Transceiver, converted for 53.032 MHz. \$ 10.00  
Contact;- VK2DAN at meeting.

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Newsletter of the Illawarra  
Amateur Radio Society

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