

Fig. 7. Suggested front panel layout.

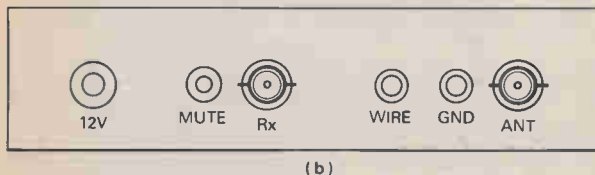


Fig. 8. Suggested rear panel layout.



a nominal quarter wave of wire thrown over a tree (ie 20m), with another quarterwave laid out on the ground as a counterpoise. Carry a much shorter length of wire with a crock clip on one end for using barbed wire fences and other 'natural structures' for a counterpoise when out 'in the field'.

By all means go for a full size dipole fed with thin coax, but trying to erect a dipole without proper supports can be interesting in the extreme!

Lx and Cx

To save cluttering the circuit diagram (Fig.1) Lx and Cx are drawn merely as variable components.

Lx comprises 30t of 24 swg PVC covered wire, tapped every three turns. This is wound, like L2 on a T-50-2 toroid (Fig.2). Dress the taps down the side of the toroid such that they solder directly onto the pins of a 12 position, single-pole rotary switch. Fig.3.

Cx is another 12 position, single-pole rotary switch, selecting a range of miniature ceramic capacitors (Fig.4).

Component Suppliers

Toroids:

Cambridge QRP Components
340 Rookery Close
St Ives
Cambridge PE17 4FX

QRP Calling freq crystals:
Gollidge Electronics
Merriott
Somerset TA16 5NS

Please send SAE with enquiries.

Parts List

Resistors

(All 1/4 W)

R1	100k
R2,6	1k
R3	100R
R4	10k
R5	560R
R7,8	470R
RV1	470R min trimpot
RV2,3	1k min trimpots

Capacitors

All ceramic

C1	82pF
C2,3,4	150pF
C5,12,13	1nF
C6,8	100n
C7,9	10n
C10,11	820pF
Cx	See text

Inductors

L1	6t 30swg enamel copper wire on ferrite bead
L2	20t 24swg pvc/ptfe covered single stranded connecting wire wound on T-50-2 toroid
L3	See text

Semiconductors

Q1	BC108
Q2,4,5	Any small Si npn
Q3	VN66AF Power fet
ZD1	5.6 Zener 100mW
D1,2,3,4	1N4148 or similar
D5,6	Leds (one red, one green)

Miscellaneous

SW2	on-off-on min toggle
SW3	on-off min toggle
SW4	pole 2-way toggle
Suitable case, 2 BNC sockets, phono socket.	

LOAD	Current Led	Voltage Led
Open Circuit	Out	Very Bright
High Impedance	Dim	Bright
Medium Impedance	Bright	Bright
Low Impedance	Bright	Dim
Short Circuit	Very Bright	Out

Fig. 5. Tuning led 'truth table'.