

KITS

Kits of parts for these modules are obtainable from WPO Communications as follows:

QRP PA: Price £21.00 inc VAT and post. All components are included except the heatsink material. PCB only £3.00 inc.

ANTENNA SWITCH/LOGIC: Price £15.45 inc. All components are included except the tinfoil screen. PCB only £2.50 inc.

Both kits include wire and drilled PCB.

Also available: 100uA meter as recommended to suit the front panel. Price £8.00 inc.

QRP PA — Component Listing

R1,2	100K
R3	1k2
R4	2k2
R5,10	820R
R6	27R
R7,8,9	22k
R11	22R
R12	100R
R13	10M
R14	2M2
R15	1k5
R16	10k
R17	6k8

All resistors 5% carbon film 0.25W.

RV1	ALPS 47k lin pot
RV2,3,4	10k 10mm dia preset
C1,2,4,11,14,15,16	100n ceramic disc
C3,8,9	1n ceramic disc
C5,12	10u 16V electrolytic
C6,10	10n ceramic disc
C7	100p ceramic
C13	47n mylar
D1	4V7 Zener diode 400mW
D2	1N4148
TR1	3SK45

TR2,3,4	VN66AF
TR5	2SK55
RFC1,2,3,5	10 turns 0.25mm en Cu wire on ferrite bead.
RFC4	TOKO type 7BA or BS 10uH
T1	8 turns, tapped 2 turns from earthy end. 0.25mm en Cu wire on Fair-Rite balun core type 28-43002402
T2	8 turns, tapped 2 turns from C2 end. As T1
T3	12 turn Bifilar Transmission line transformer. Wound using 0.40mm en Cu wire on Fair-Rite Core type 59-61001101 (see text).
T4	12 turn Trifilar Transmission line transformer. Wire and core as T4 (see text).
L1	TOKO type 301KN-0800
M1	100uA Type ML52 (also used as S-Meter)

Also required:

9 x 1mm PCB connection pins.
20 swg aluminium sheet (for heat-sinks).
3 x Nylon 6BA bolts (6mm long) and nuts (metal or nylon).
1 Miniature Ferrite Bead.

Component Listing — Logic and antenna switch

R1,26	1k0
R2	2M2
R3	120R 0.5 watt
R4,9,10	100k
R5	100R
R6	120R 1 watt
R7,11	560R
R8,12	5k6
R13	1M2
R14,15,24,25	47k
R16,17,	

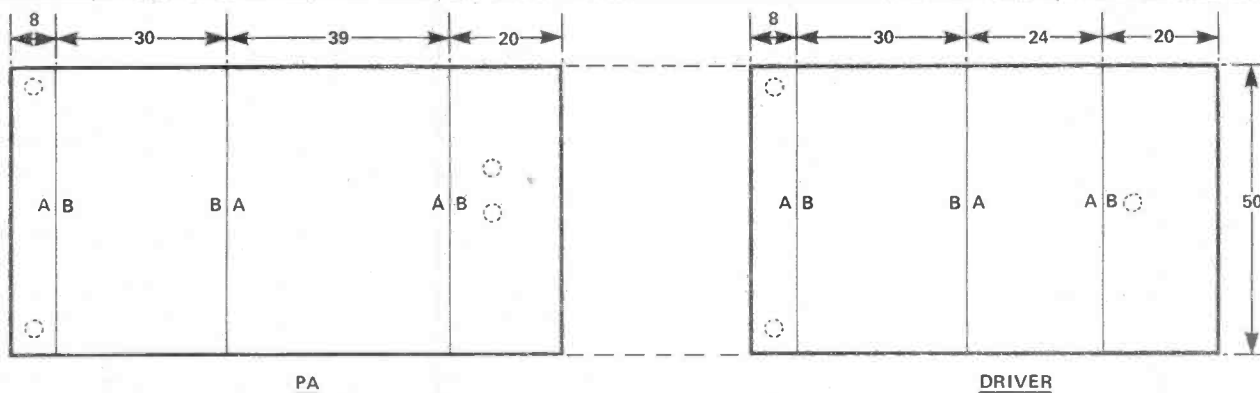
18,19,22,23	10k
R21, R22	150R
R27	12k
R28	10k
R29	1k2

All resistors 0.25W carbon film 5% except where specified.

C1	10n 600V min ceramic disc
C2-7	10p ceramic disc
C8,10,12,14,15,16,20	10n ceramic disc
C9,11,13,17	100n ceramic disc
C18,19,21,28	100n monolithic ceramic
C22	10n mylar
C23,24,25	10uF 16V Radial electro
C26,27	100uF 16V radial electro
D1-6,11-18	1N4148
D7	5V6 zener diode
D8,9,10	BA379 pin diode
TR1	BF259
TR2,3	BC308 or 309
TR4,5,6,7,8	BC238 or 239
TR9	BFY51
IC1	4001B
IC2	4011B
IC3	4016B
IC4	NE 555
RFC1	10t 0.25mm en Cu wire wound on 10mm block toroid.
RFC2,3,4	TOKO type 7BA or BS 180uH
RFC5	10 turns 0.25mm en Cu wire on ferrite bead.

Also required:

Tinfoil or D.S. PCB screen 95 x 20mm.
3 x 14 pin DIL I.C. sockets.
25 x 1mm PCB connection pins.



A = CLAMP THIS PART
B = BEND THIS PART

HOLES SHOWN DOTTED ARE 3mm Ø
MARKED FROM PA BOARD WHEN
BENDING COMPLETE

MATERIAL : 20swg ALUMINUM SHEET

Fig. 7 Drilling and cutting details of the heat-sinks.