

# COILS

## TYPE P



A series of ungrounded superhet coils covering the wave-range of 15-5000 metres when tuned by a standard 5000 pfd. condenser.

The intermediate frequency used is 455 Kc./s. Overall dimensions of the coils are 1 1/2 dia. x 1 1/2" long, excluding connecting legs. Fixing is by a single 9BA screw.

Each coil consists of a primary and secondary winding, the latter being connected to the two long legs, the high potential (grid) end being marked "Grid." In order that the minimum circuit capacities may be adjusted to the figures given below, a trimmer having a range of 15-60 mfd. should be connected to the secondary winding on all coils. It will be noted that a somewhat higher capacity may be needed for the long-wave coils.

Since the coils are ungrounded, they should be mounted so that the distance between the winding and any nearby object is at least 1/4", otherwise the inductance and Q value may be affected.

In some cases the heterodyne voltage developed may be in excess of that specified by the valve manufacturer, and should be corrected by the use of a resistor (50-500 ohms.) in series with the reaction winding. The actual resistance value can only be determined by experiment.

A heat frequency oscillator coil (Type BFD, 1000µH) is available, and is tapped for use in a "Hardley" or similar circuit. The tuning capacity required for 1000 cycle beat is 125 mfd.

If an input circuit is required to reduce interference on the I.F. frequency, either the rejector circuit (Type R.F. parasitic shield by 450 mfd, and connected in the aerial lead) or the acceptor circuit (Type A.F. series tuned by 100 mfd. and connected between aerial and earth) may be used.

PRICE: All types 5/- each.

The following tables give details of inductance, etc. for the full range of coils —

### AERIAL COILS

Type	Inductance (µH)	Wave Range (metres) with 500 mfd. cond.	Approx. Trim Capacity (mfd.)
PA4	55	75 — 75	65
PA5	3.5	14 — 150	45
PA6	37.2	31 — 36.1	45
PA7	350.0	12 — 105	45
PA1	1000.0	265 — 3000	75
PA2	100.0	500 — 517	55
PA3	1.5	14 — 47	35

### H.F. TRANSFORMERS

These have the same inductance and wave-ranges as the Aerial coils detailed but the Type Nos. PFD 4, PFD 5, etc.

### OSCILLATOR COILS

Type	Inductance (µH)	Approx. Trim. Cap. (mfd.)	Approx. Pfd. Cap. (mfd.)
PO4	5.2	45	5000
PO1	4.8	45	2500
PO2	35.45	45	1000
PO3	144.2	75	500
PO5	300.0	75	100
PO7	84.0	75	450
PO8	1.5	55	3000