



COMPLETE AM AND CW DETECTOR AND AGC UNITS FOR VALVE CIRCUITS



We are very proud of this range of de-luxe AM & CW detector and AGC units in our Series II style of I.F.'s. As their name denotes, these are COMPLETE DETECTOR UNITS, thereby saving a double diode valve, heater current and space! Each unit comprises the final I.F.Xfr, audio diode, audio load resistor and condenser and audio filter network, PLUS the AGC diode, coupling condenser, AGC load resistor and filter resistor!

As in our other de-luxe I.F.'s the I.F.Xfr windings are of potted construction, but are slightly tighter coupled to suit the diode loading conditions, etc. For core adjustment, either design of our nylon trimming tool is ideal.

By virtue of the fact that all the audio and AGC components are within the IF can and are totally screened, 'hum' is completely eliminated and improved IF stability is achieved.

The time constants for each type have been carefully chosen to give optimum results with the emphasis on communications, but for those whose prime interest is high fidelity rather than communications, or where special balanced detector circuits are required, we have also produced a push/pull detector and AGC unit in which push/pull audio diodes are fitted, all other components being the same. By using one of these push/pull units together with a suitably aligned I.F. strip, the Hi-Fi man should be able to derive great pleasure from some of the good quality A/M transmissions available today. If the Front-end unit is one of our General Coverage 'QOILPAX' type GC166, quite fantastic results can be achieved.

Both types are available in any of our normal I.F. values, namely 50, 85, 100 and 460 K/c, 1.6 & 2.1 M/c's. All units are in our Series II cans, size 1 in. x 1 1/4 in. x 2 1/2 in., and are supplied complete with PK fixing screws and shakedown washers, circuit diagram, and individually boxed. AN ADHESIVE DRILLING TEMPLATE IS ALSO PROVIDED.

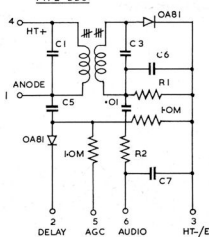
Type	Code
Single-ended units	DDU/50
" "	DDU/85, 100,
" "	460, 1.6, 2.1
Push/pull	PPDDU/50
" "	PPDDU/85,
" "	100, 460, 1.6,
" "	2.1



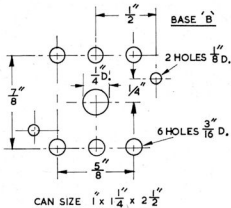
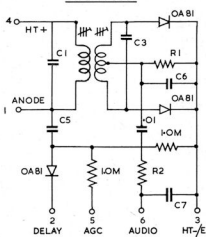
To enable delayed AGC to be obtained, the positive side of the AGC diode is brought out to Pin 2 so that a suitable positive delay voltage can be applied. This delay voltage can normally be obtained from the cathode of the last I.F. valve, or from any other small positive voltage source. If a delay voltage is used, a .01µF or larger value MUST be connected from Pin 2 to HT-chassis, and if no delay is used, then Pin 2 MUST be connected to HT-chassis.

Audio output from these units is taken from Pin No. 6 straight to the audio gain control which will normally be either .5 M/ohm or 1.0 M/ohm log law type. The AGC output voltage is taken from Pin No. 5 and can be fed to the normal AGC networks feeding the RF and IF stages. A suitable decoupling and time constant condenser must also be connected from Pin 5 to HT-chassis.

TYPE DDU



TYPE PPDDU



Drilling diagram

FREQ.	50 KC	85 KC	100 KC	460 KC	1.6 MC	2.1 MC
C1	1100pF	750pF	540pF	100pF	100pF	68pF
C3	1100pF	750pF	540pF	100pF	100pF	68pF
C5	47pF	47pF	47pF	30pF	20pF	20pF
C6	270pF	200pF	200pF	134pF	100pF	100pF
C7	270pF	200pF	200pF	100pF	87pF	87pF
R1	500K	500K	500K	220K	100K	100K
R2	220K	220K	220K	100K	47K	47K