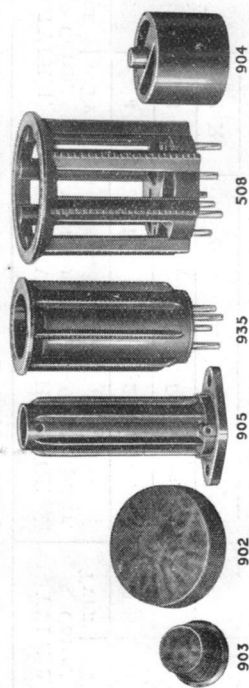


## Bakelite Mouldings

FOR HOME CONSTRUCTORS



	PRICE
No. 903. Small knob, 1" diameter, in black or walnut finish, $\frac{3}{16}$ " or $\frac{1}{4}$ " hole	<b>6d.</b>
No. 902. Large tuning knob, 2" diameter, black or walnut finish, $\frac{3}{16}$ " or $\frac{1}{4}$ " hole	<b>9d.</b>
No. 904. Bakelite former with $\frac{1}{4}$ " boss at bottom for mounting. $1\frac{1}{2}$ " diameter $\times$ $\frac{13}{16}$ " high, fits inside 6 pin former	<b>9d.</b>
No. 905. Short Wave H.F. choke former, $2\frac{1}{2}$ " winding space, 6 ribs, outside diameter $\frac{13}{16}$ "	<b>1/6</b>
No. 935. 4 pin valveholder fitting coil former, 8 ribs. Outside diameter $1\frac{3}{8}$ " Winding space $2\frac{1}{8}$ " with plain ribs	<b>2/3</b>
No. 936. Ditto, with ribs threaded 14 turns to 1"	<b>2/6</b>
No. 508. 6 pin former, standard 6 pin base fitting. 8 ribs, outside diameter $2\frac{1}{4}$ ", winding space $2\frac{1}{4}$ ", threaded 10 turns to 1"	<b>3/-</b>
No. 507. Ditto, with plain ribs	<b>2/6</b>
No. 509. Ditto, with 8 slots in ribs equally spaced for pile winding, width and depth of slot $\frac{3}{16}$ " $\times$ $\frac{1}{8}$ "	<b>3/-</b>

### ERINOID PILLARS for raising valveholders, coil bases, etc.

No. 1P. $\frac{1}{4}$ " high $\times$ $\frac{5}{16}$ " diameter clearance hole	.. .. . <b>9d.</b> doz.
No. 2P. $\frac{1}{2}$ " high $\times$ $\frac{1}{16}$ " diameter clearance hole	.. .. . <b>1/-</b> doz.
No. 3P. $\frac{1}{2}$ " high $\times$ $\frac{3}{8}$ " diameter, tapped 6BA	.. .. . <b>1/3</b> doz.
No. 4P. $1\frac{1}{2}$ " high $\times$ $\frac{3}{8}$ " diameter, tapped each end 6BA	.. .. . <b>1/9</b> doz.
No. 5P. $2\frac{1}{4}$ " high $\times$ $\frac{3}{8}$ " diameter, tapped each end 6BA	.. .. . <b>2/3</b> doz.



*eds*

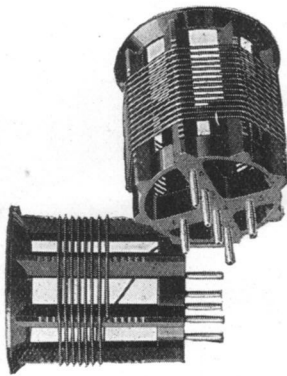
# EDDYSTONE

## SHORT WAVE APPARATUS

**STRATTON & Co. Ltd.**  
Bromsgrove Street,  
**BIRMINGHAM 5**  
Cables:  
"STRATNOID," BIRMINGHAM.

## 6 Pin Low Loss Coils

CAT. No. 506. Code ACPIS.

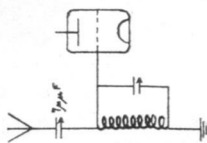


### 12.5 METRES—1800 METRES

These "EDDYSTONE" 6 pin interchangeable coils enable an all wave receiver with high efficiency on all wavelengths to be built, the full wave-band covered by them being from 12.5 to 1800 metres.

The coils themselves, although of full low loss design, are strong and substantial and will withstand rough handling. The skeleton moulded former is made from bakelite and the winding which touches only on the points of support on the ribs is practically air wound. The coils are 2 1/4" in diameter and the short wave coils are wound with 18 gauge enamelled copper wire. Each turn is spaced 3/8" and is held in position by slots. The pins have a minimum of inter-capacity and are of the banana spring type to ensure good contact. The ends of the winding are taken through the pins and are soldered at the bottom. Each coil is definitely distinguished by different colour markings on top, and in the case of pairs working together, the same colour is used but different markings employed.

#### CIRCUIT FOR TYPE 1.



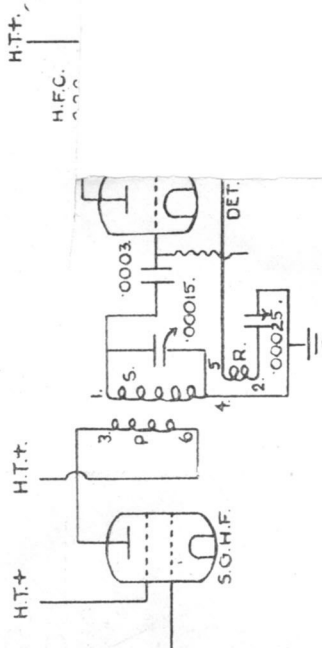
#### TYPE 1 COILS.

This is a single winding coil for use as the tuned grid circuit preceding a S.G. high frequency valve. The coils are wound so that with the aerial load when coupled through the "EDDYSTONE" Midget Condenser, they have approximately the same wavelength range as the H.F. transformer when tuned with a similar condenser.

#### TYPE 2. H.F. Transformer with reaction.

This circuit gives an excellent form of inter-valve coupling between the high frequency valve and detector in a short wave receiver. It gives a particularly smooth reaction control and very stable operation. On the broadcast band, it is just as efficient and gives a high degree of selectivity.

#### CIRCUIT FOR TYPE 2 COILS.



## 6 Pin Low Loss Coils

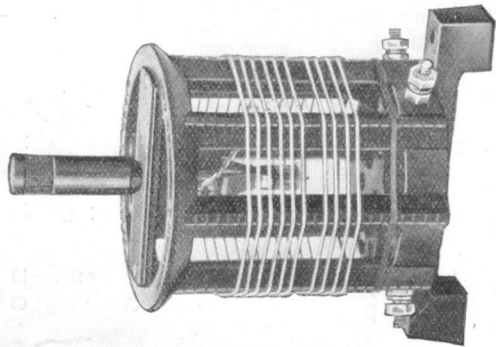
CAT. No. 506. Code ACPIS.

### WAVE RANGE & PRICE.

TYPE 1. COILS. PRICE	TYPE TYPE	WAVELENGTH RANGE when tuned with .00015 condenser.	TYPE 2. COILS.	
			TYPE	PRICE
4/- Each	4 LB	12.5 — 28 metres.	2 LB	5/- Each
	4 Y	24 — 50 metres.	2 Y	
	4 R	40 — 85 metres.	2 R	
4/6 Each	4 W	80 — 170 metres.	2 W	6/- Each
	4 P	160 — 270 metres.	2 P	
	4 G	260 — 550 metres.	2 G	
5/- Each	4 BR	490 — 1000 metres.	2 BR	6/- Each
	4 GY	900 — 1800 metres.	2 GY	

Standard 6 pin coil base for all coils CAT. No. 510 .. 2/-

## Short Wave Dual Range Coil Unit with Switch.

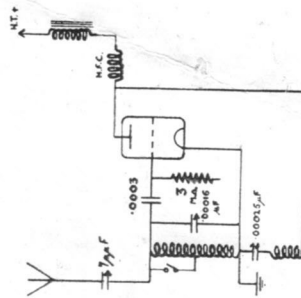


CAT. No. 931. Code ACDU.

Wave range 18/34.5 metres and 34/64 metres, when used with a .00016 mid. variable condenser.

PRICE .. 7/-

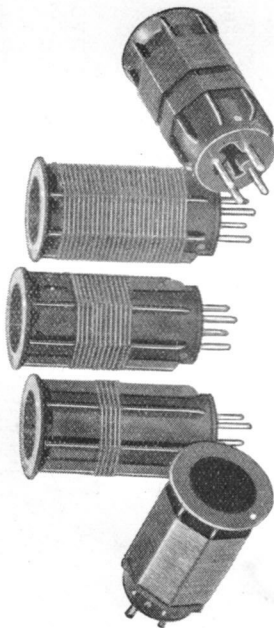
This unit forms the complete inductance portion for a short wave receiver of 2 or 3 valves, employing a detector valve in the first stage. It consists of a dual range grid coil with reaction winding for use on the Reinartz principle. The wave change switch is incorporated within the coil itself, thus keeping down the length of the necessary leads. The coil is fully loss wound on a similar former to that used for the "EDDYSTONE" 6 pin coils and gives most efficient results.



SET OF FIVE

## Four Pin S.W. Coils

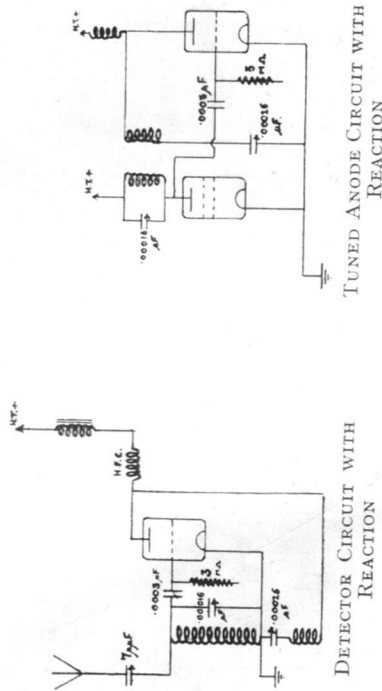
VALVE HOLDER FITTING. 13.5-550 METRES.



CAT. No. 932. Code ACFO

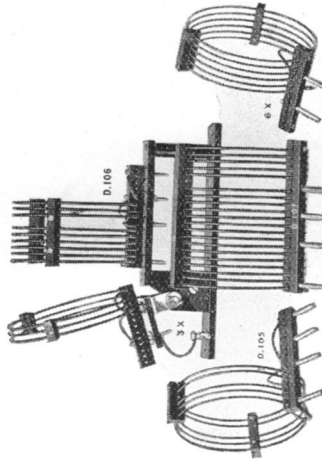
These coils plug into any standard valveholder. They comprise grid and reaction windings and can be used for a variety of purposes. The short wave coils are space wound with 22 gauge enamel copper wire, the formers being threaded to prevent the turns moving. The two higher wavelength coils are single layer wound with enamel wire. They are highly efficient with small external field and of ideal form shape. The efficiency can be judged by the fact that the type G coil covers a wave-range of 210 to 550 metres when tuned with a capacity of only .00016 mfd.

Type 2BB,	11.26/25 metres	3/6
Type LB,	13.5/29 metres	3/6
Type Y,	22.5/47 metres	3/6
Type R,	41/87 metres	3/6
Type W,	80/220 metres	4/-
Type G,	210/550 metres	4/6



## Short Wave Inductance Unit

This is an improved pattern of the original type AV unit, being more efficient and simpler in use. It forms the complete inductance portion for building a short wave receiver, providing an aperiodic aerial coil, grid coil and reaction coil. The last named are wound on the same mount and are plugged in together, while the aerial coil is plugged independently into the moving portion of the stand and is thus variable. A 3 turn and a 6 turn aerial coil and three duplex grid-reaction coils are supplied with the stand covering a range from 15 to 95 metres. Construction of the coils is as described below.



CAT. No. 503. Code ACAS.

PRICE **22 6**  
Complete with full instructions.

EXTRA COILS.	
90-150 metres	7/6
150-280 metres	7/6
260-550 metres	7/6

ALL WAVE RANGES ARE WITH .00016 MFD. CONDENSER.

Aerial coil for—	2/6
90-550 metres	8/6
1200-1800 metres 5XX	8/6

## Plug in Short Wave Coils

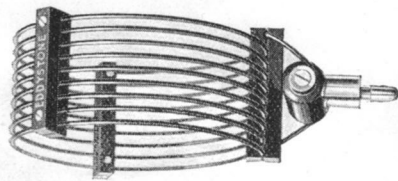
CAT. No. 112. Code ACOS.

These coils are wound from 16g. copper wire, with turns spaced 3/8" apart, they therefore have a low high frequency resistance and self capacity, both of which are the essentials of a good short wave coil. The turns are clamped together by milled ebonite strips which hold them absolutely rigid. Apart from this small amount of insulation the dielectric is solely air. They are supplied with a special low capacity plug, fitting the standard coil holder, or with the ends brought to valve pins as shown in the illustration of the short wave unit.

PRICE WITH PLUG OR PINS.

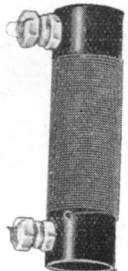
No. 3	12-25 metres, 2/3
No. 9	28-75 metres, 3/3
No. 4	15-40 metres, 2/6
No. 12	35-90 metres, 3/3
No. 6	20-48 metres, 2/9
No. 15	43-100 metres, 4/-

ALL WAVE RANGES ARE WITH .00016 MFD. CONDENSER.



Diameter, 3".

## Ultra Short Wave Choke



CAT. No. 928. Code ACIS.

A H.F. choke for the ultra short wave-lengths, including the 5-10 metre wave-range. The winding is double space wound on a featherweight former 1 7/8" x 1/2" diameter, which allows the choke to be easily supported in the wiring of the receiver itself. Natural peak wavelength 38 metres.

PRICE .. 1/6

## Fixed S.W. Aerial Coupling Condenser

This small fixed condenser, with brass vanes and air dielectric, has a capacity of 12 m.mfds. It is intended for coupling the aerial to the grid circuit of short wave receivers, super-hets or S.W. converters. The value is one that has been found most suitable in practice.

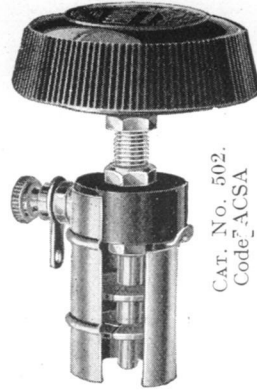


CAT. No. 929. Code ACSI

PRICE .. 1/-

## Midget Variable Condenser

The "EDDYSTONE" Midget Variable Condenser is a small and neat instrument which is easily mounted, has a smooth motion and can be adjusted to a very small minimum capacity or to a relatively large one. It is very suitable as the means of coupling an aerial to the grid coil of a short wave receiver. In this position, aerial load is removed to such an extent that easy reaction control is obtained while any blind tuning spots which may occur due to the aerial can be removed by a slight variation of this condenser capacity. It is also suitable for trimming use across a larger capacity or as a neutrodyne condenser. Max. Capacity, 8 m.mfd. Min. Capacity, 2 m.mfd.



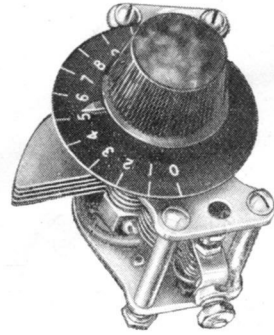
CAT. No. 502.  
Code ACSA

PRICE .. 2/9

## Slow Motion Reaction Condenser

FOR SHORT WAVE RECEIVERS.

The reaction control in a short wave receiver intended for telephony reception is one of the most important components to have absolutely right. A very fine degree of accuracy is required so that the most advantage can be obtained on weak signals, a condenser with no vernier control or one that is at all jumpy in action will spoil an otherwise good receiver. This "EDDYSTONE" condenser has a 10-1 vernier motion that is perfectly smooth and responds to the slightest touch without any back-lash. The condenser is all brass with air dielectric so that if used in Reinartz circuits in series with the H.T. supply, there is no H.T. leakage across it.



CAT. No. 940.

PRICE—0.0015 mfd. ACSU 8/6  
0.0025 mfd. ACSIT 9/6

## Fixed Potentiometer

FOR SHORT WAVE SETS.

The best results are obtained from the detector of a short wave receiver when the grid of the valve is given a slightly positive potential by connecting the grid leak to a potentiometer across the filament supply. Full positive often makes the reaction control rough, but while full negative remedies this, there is a slight loss of signal strength. This potentiometer enables either  $\frac{1}{3}$  or  $\frac{2}{3}$  positive bias to be applied as required with very beneficial results.

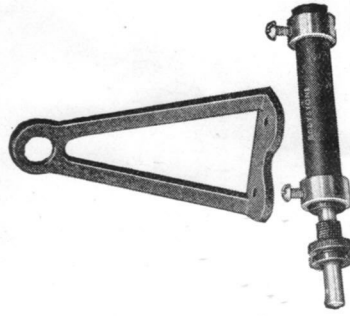


CAT. No. 938.  
Code ACAR

PRICE .. 1/6

## Extension Spindle Outfit

For extending the spindles of variable condensers to overcome capacity effects or to improve lay-out and wiring of receivers, this outfit will be found very useful. The insulating rod is of ebonite, the holes at each end being reamed true and is complete with N.P. fastening collars and N.P. brass spindle. An insulating panel bush with fastening nut and the condenser mounting bracket complete the outfit. The bracket is of cast aluminium finished brown and is  $3\frac{3}{8}$ " high to centre of clamping hole.



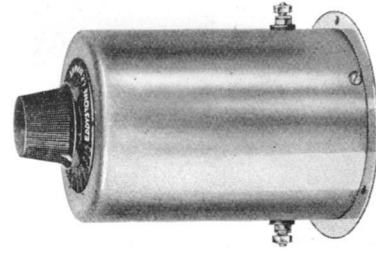
CAT. No. 925. ACAC 3" Ebonite Rod 2/6  
CAT. No. 926. ACEC 6" Ebonite Rod 3/-  
CAT. No. 937. ACIC Bracket only 1/-

Bracket for 3 hole fix condensers can also be supplied. ACOC.

## I.F. Coupling Unit

FOR 5-10 METRE CONVERTERS.

In all types of short wave converters, it is necessary to have some means of coupling the output from the converter to the standard broadcast receiver. In many cases this is done by using a high frequency choke and coupling condenser. This method can be very inefficient if the aerial circuit of the broadcast set gives only a weak coupling to the grid of the first valve. The "EDDYSTONE" I.F. Unit comprises a low loss coil tuned with a variable condenser and totally screened. This unit can be tuned to the exact frequency to which the receiver is set and so a very efficient and effective coupling results. The I.F. Unit has a range of 1,250 to 590 kilocycles or approximately 240-500 metres.

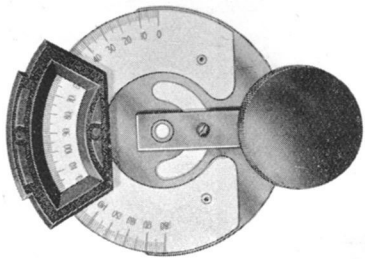


CAT. No. 934. Code ACER

PRICE .. 8/6

## Vernier Disc Drive

This drive has been produced specially for accurate tuning in short wave receivers. The motion is smooth without back-lash with a ratio of 22-1. We find that this ratio hits the happy medium between the ordinary disc drive of 7 or 8-1 ratio and the ultra slow mechanism of 60 or 80-1, and is very satisfactory in use. The large well milled tuning knob also greatly facilitates fine adjustment. Fitted with bakelite escutcheon, with red hair line and nicely engraved 0-180° dial.



CAT. No. 933. Code ACDIS.

933 B. Black escutcheon and knob.

933 W. Walnut " " "

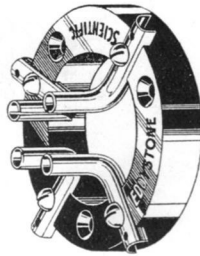
PRICE .. 7/6

## Short Wave Valve-holder

This valve-holder is of low loss construction, the sockets being entirely air spaced. It is very suitable for ultra short wave work on 5-10 metres as well as all ordinary purposes. Each socket is made from one solid piece of material and all chance of noise and bad contact through odd pieces being joined together is obviated. An excellent positive contact is ensured with the valve pins. The insulating ring is made from best quality bakelite and can be fastened on to a metal baseboard without the need for any extra insulating precaution.

CAT. No. 501. ACUR-4 pin. PRICE, 1/3

CAT. No. 500. ACVO-5 pin. PRICE, 1/6



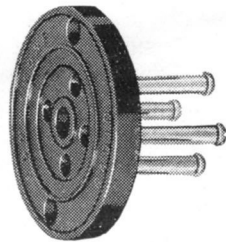
## Low Loss Valve-holder

FOR UNDER BASEBOARD WIRING.

This valve-holder is fitted with patent sockets made to give a special positive grip on valve pins either of the banana type or solid type. Connections without soldering can be made if required to the sockets, which are drilled and tapped at the bottom and carry a screw connection. The body of the holder is of best quality bakelite and the whole is designed to give a low self-capacity. The metal sockets are countersunk below the bakelite top. Available in two types.

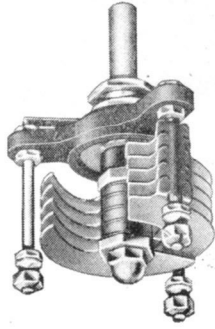
CAT. No. 920. ACVI-4 pin.

CAT. No. 921. ACVU-5 pin. } PRICE, 1/3



## Microdenser

FOR ULTRA SHORT WAVE WORK.



This condenser has been developed specially for short wave use and in particular for the ultra short waves from 5-10 metres. It incorporates all the important details for this exacting work and much time and experiment has been spent on its design. The vanes are of brass, double spaced and soldered together to give a low series resistance at high frequencies. The spindle bearing is of special and new design and has only one point of metal to metal contact so that noise is eliminated. The motion is smooth and with easily adjustable tension. The insulating spider is made from ISOLEX, a new material developed for high frequency work. Connecting terminals are very conveniently placed so that, if desired, the coil can be mounted directly on to the condenser. The size is small and compact, so that the external field is correspondingly small.

CAT. No. 900.

15 m.mfd. PICA .. 4/6

25 m.mfd. PICE .. 4/9

35 m.mfd. PICO .. 5/-

50 m.mfd. PICUT .. 5/6

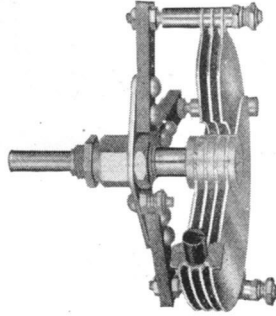
75 m.mfd. PICAS .. 6/-

100 m.mfd. PICAT .. 6/6

## Short Wave Variable Condensers

FOR RECEPTION OR TRANSMISSION.

The tuning condensers in a short wave receiver are of very great importance to the final efficiency which will be obtained. This "EDDYSTONE" short wave condenser has been thought out in every detail for the purpose in mind. Thus the losses due to endplates and insulating materials have been reduced to a minimum, the moving vanes and fixed vanes are soldered together in four places to prevent variation of capacity and high series resistance. The condenser is made of solid brass with long hollow taper cone bearing and is quite noiseless in use. The vanes are well spaced and shaped to give an even distribution of stations on the short wavelength band.



CAT. No. 922.

Code ACRA.

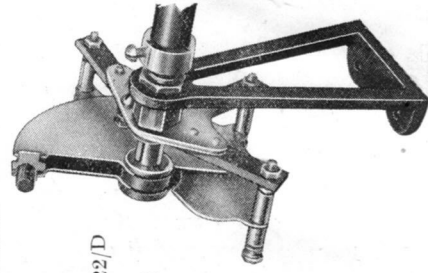
Type 922. Min. capacity, 2.5 m.mfd.

Max. capacity, .00016 m.mfd.

PRICE .. 9/6

CAT. No. 922/D

Code ACRE



The model shown on the right has been specially developed for amateur use. With a suitable coil, the condenser spreads the 14 M.C. band over 60° on the dial. Extra wide spaced vanes of heavy brass also make the condenser ideal for use in Short Wave transmitters.

Type 922/D. Min. Capacity, 1 m.mfd.

Max. Capacity, 25 m.mfd.

PRICE .. 9/6



## Short Wave Choke 14-100 METRES.

This choke is recommended for use in receivers where space is limited and a compact choke with a small external field is very desirable. It consists of a small single layer winding followed by a number of windings distributed apart in slots to reduce the self capacity. The ebonite bobbin has terminals at each end and is designed to mount in the wiring of the receiver itself. Very efficient and gives a nice smooth reaction control.



CAT. No. 911.  
Code ACTAX.

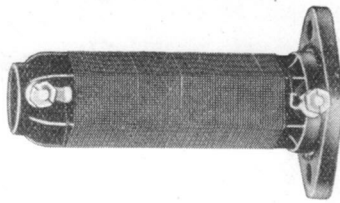
PRICE .. 2/-

## Short Wave Choke

For a receiver intended to be used on short wavelengths exclusively, we strongly recommend this choke which has been designed with this one purpose only in mind. The former is a special quality bakelite moulding, so constructed that it can be mounted vertically. The winding is space wound on the hollow ribbed portion and will remain permanently in position. Diameter of winding 1", giving small external field. The self-capacity is less than 1 m.mfd. Will add to the efficiency of your short wave receiver and contribute greatly to a constant reaction control without flat spots.

CAT. No. 923. For receivers and crystal controlled stages of transmitters, current carrying capacity up to 20 m.amps., 9-100 metres wave-range. PRICE .. 2/6

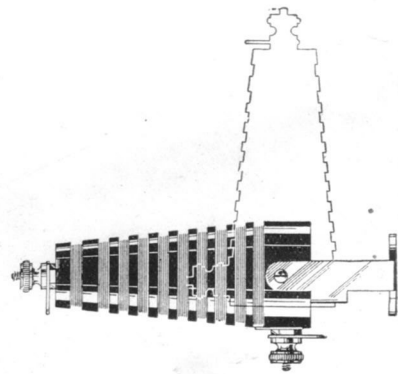
CAT. No. 924. For transmitters, current carrying capacity 100 m.amps., 8-50 metres waverange. PRICE .. 3/-



## Scientific H.F. Choke FOR UNIVERSAL USE ON WAVES BETWEEN 12 AND 2000 METRES.

The "EDDYSTONE" Scientific Choke covers efficiently the whole waveband range from 2000 to 12 metres, and is the standard choke used in all "EDDYSTONE" short wave receivers. It is wound in divisions on a hollow bakelite former with ten slots and has the low self capacity of only 2.3 m.mfds. A further strong feature of its construction is the small magnetic field which it possesses, which means that it is unlikely to give trouble through coupling with any other apparatus in the receiver. The special mounting bracket permits of its use in a vertical or horizontal position.

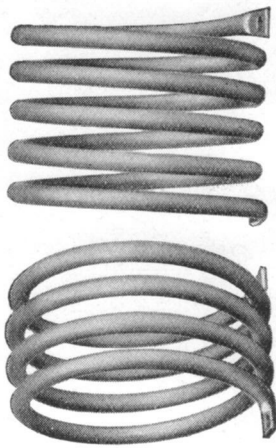
PRICE .. 4/6



CAT. No. 505. Code ACTOX

## Transmitting Inductances

CAT. No. 514. Code ACAB



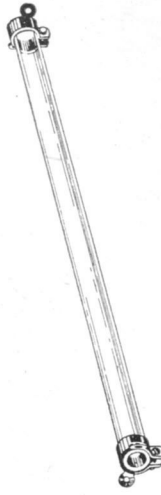
These inductances are ideal for small and medium power transmitters. They will carry up to 500 watts anode current dissipation without heating and give a very high degree of efficiency. They are wound from soft drawn 20 gauge copper and are supplied in  $\frac{1}{8}$ " or  $\frac{1}{4}$ " tube form. The coils after winding are dipped bright and then lacquered to prevent oxidation. Supplied in 3" diameter helix, any number of turns up to 15 maximum, with ends flattened and pierced for mounting.

PRICE ..  
 $\frac{3}{4}$ " outside diameter Copper Tube .. 5d. per turn.  
 $\frac{1}{4}$ " outside diameter Copper Tube .. 6d. per turn.

## Glass Feeder Spreaders

CAT. No. 515. Code ACEB

For spacing transmission feeders to a Hertz aerial.



FOR INDUCTANCES.



## Tapping Clip

CAT. No. 516.

Code ACBA

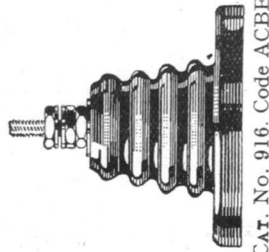
This useful little clip, as shown, will clamp tightly and securely on  $\frac{3}{16}$ " to  $\frac{1}{8}$ " tube and will carry heavy currents without loss or heating.

PRICE .. 6d. each.

## Stand-off Insulator

The "EDDYSTONE" Stand-off Insulator will find many uses in the experimenter's and transmitter's laboratory. It is ideal for mounting inductances, meters, spacing insides aerial feeders, and in fact for all insulating purposes where high voltages have to be carried. It is made of best porcelain with hollow centre and carries fastening screw, nuts and wing nut (not shown).

1/3



CAT. No. 916. Code ACBE