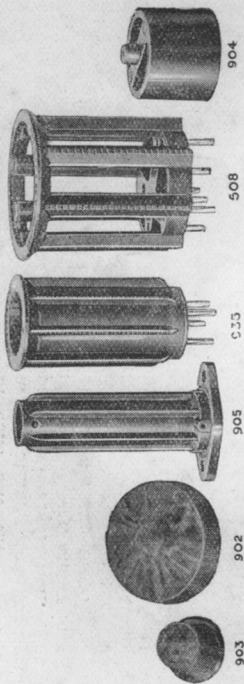


EDDYSTONE

Bakelite Mouldings

FOR HOME CONSTRUCTORS



- | | | |
|----------|---|--------------------|
| No. 903. | Small knob, 1" diameter, in black or walnut finish, $\frac{3}{8}$ " or $\frac{1}{2}$ " hole | PRICE
6d |
| No. 902. | Large tuning knob, 2" diameter, black or walnut finish, $\frac{3}{8}$ " or $\frac{1}{2}$ " hole | 9d. |
| No. 904. | Bakelite former with $\frac{1}{4}$ " boss at bottom for mounting. $1\frac{1}{4}$ " diameter \times $\frac{13}{16}$ " high, fits inside 6-pin former | 9d. |
| | Short Wave H.F. choke former, $2\frac{1}{2}$ " winding space, 6 ribs, outside diameter $\frac{13}{16}$ " | 1/6 |
| | 4-pin valveholder fitting coil former, 8 ribs. Outside diameter $1\frac{3}{8}$ ". Winding space $2\frac{1}{8}$ " with plain ribs | 2/3 |
| | itto, with ribs threaded 14 turns to 1" | 2/6 |
| | 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" | 3/- |
| | to, with plain ribs | 2/6 |
| | o, with 8 slots in ribs equally spaced for pile winding, h and depth of slot $\frac{3}{32}$ " \times $\frac{1}{8}$ " | 3/- |

PILLARS for raising valve-holders, coil bases, etc.

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

Pyrex Aerial Insulator

This Pyrex Insulator is undoubtedly the finest insulator for use in short wave aerial systems, whether for receiving or transmitting. It has a very long leakage path and is absolutely non-hydroscopic.

CAT. No. 966. Code ENTEX
PRICE **9d.**



EDDYSTONE

SHORT WAVE APPARATUS

STRATTON & Co. Ltd.
EDDYSTONE WORKS,
Bromsgrove Street,
BIRMINGHAM 5

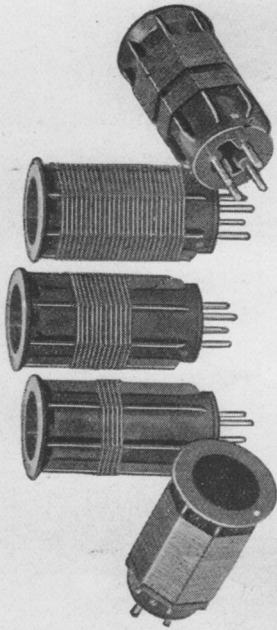
Cables
"STRATNOID BIRMINGHAM."



EDDYSTONE

Four Pin Interchangeable Coils

TWO WINDINGS.
12—2,000 METRES.



CAT. No. 932.

Code ACFO.

These coils plug into the standard 4-pin valve-holder and carry two separate windings so that they can be employed for a multiplicity of purposes, two uses being shown in the sketches below. The short wave coils are space wound with 22 gauge enamelled copper wire, the formers being threaded to prevent the turns moving. The higher wavelength coils are single layer wound with enamelled wire, except the long wave coil, which comprises a number of bank windings in a slotted former. The form shape is such that they are highly efficient, yet they have only a small external field. The full range of coils is designed so that they can be used as the aerial coil in conjunction with the 6-pin coil as the later tuned stage. All wave-ranges given are with a .00015 mfd. condenser and allow for circuit load, the natural minimum wavelength of each coil is therefore below the figure shown.

Type	Wavelength (metres)	Price
Type LB,	12-26 metres	3/6
Type Y,	22-47 metres	3/6
Type R,	41-94 metres	3/6
Type W,	76-170 metres	4/-
Type P,	150-325 metres	4/3
Type G,	250-500 metres	4/6
Type BR,	400/800 metres	5/-
Type GY,	1100-2000 metres	5/-

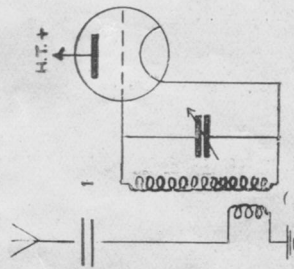


FIG. 1—Aperiodic aerial coupling with tuned grid circuit.

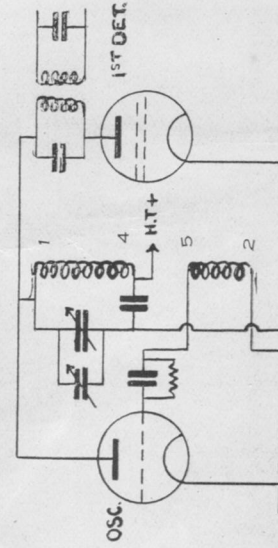
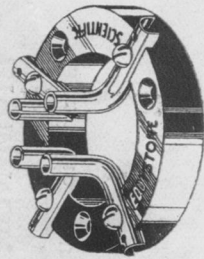


FIG. 2—Super heterodyne oscillator circuit.

Bakelite Valve-holder and Coil Base

This valve and coil base is of low loss construction with high grade bakelite insulating ring. The sockets are one piece of metal to prevent noise and are entirely air spaced.

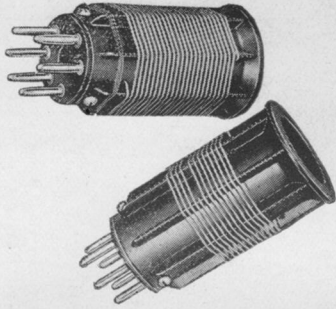
CAT. No. 501. Code ACUR. 4-pin .. PRICE 1/3
CAT. No. 500. Code ACVO. 5-pin .. PRICE 1/6



EDDYSTONE

Six Pin Interchangeable Coils

THREE WINDINGS.
12—2,000 METRES.



CAT. No. 959. Code EXCIS

Type	Wavelength (metres)	Price
Type 6LB,	12-26 metres	4/6
Type 6Y,	22-47 metres	4/6
Type 6R,	41-94 metres	5/-
Type 6W,	76-170 metres	5/-

These coils are similar in general design to the 4-pin coils but they carry an additional separate winding which greatly increases the scope of their application. The ratio of the windings, however, allows in general for one aperiodic coil, one tuned coil and reaction winding. They have the great advantage that they are small and compact in size, giving a coil of high efficiency with a small external field. The arrangement of the pins necessitates the use of a six-pin base as shown below.

They are designed so that one 4-pin and one 6-pin coil can be used together with ganged tuning if desired. All wave-ranges given are with a .00015 mfd. condenser and allows for circuit load.

Type	Wavelength (metres)
Type 6P,	150-325 metres
Type 6G,	250-500 metres
Type 6GG,	285-560 metres
Type 6BR,	400-800 metres
Type 6GY,	1100-2000 metres

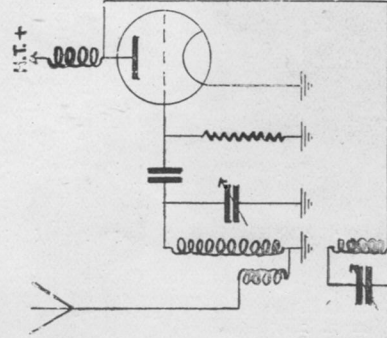


FIG. 3—Aperiodic aerial coupling and tuned grid circuit with reaction.

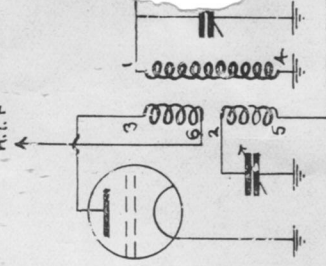


FIG. 4—High frequency transformer, aperiodic primary, tuned secondary and reaction.

Six Pin Coil Bases

A special 6-pin base is required to take the coils as listed above. This is available in the two types as shown, for above or below baseboard construction.

CAT. No. 969. Code ESAF

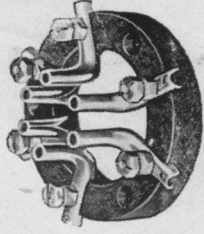
Price: 2/3

CAT. No. 963. Code ESAB

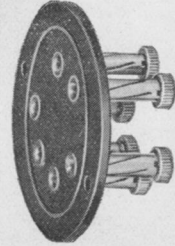
Price: With Terminals 2/-

CAT. No. 964. Code ESAT

Price: With soldering tags 1/6

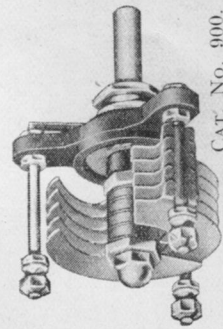


CAT. No. 969. Baseboard type.



CAT. No. 963 and 964. Under baseboard type.

Microdenser



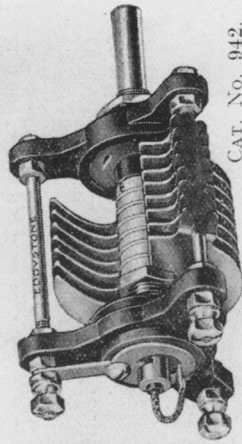
CAT. No. 900.

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.

15 m.mfd. Code PICA	3/9	40 m.mfd. Code PICUT	4/3
25 m.mfd. Code PICE	4/-	100 m.mfd. Code PICAT	5/-

"Scientific" S.W. Variable Condenser

The tuning condensers in a short wave receiver are of the very greatest importance and only specialised design will give good results. The "EDDYSTONE" Scientific Short Wave Condenser is of the latest design and has been thought out in every detail for the work in mind. The spider endplates are made from the special insulating material Isolex, a bakelite developed for high frequency work. The bearings at either end are a patented "EDDYSTONE" feature of bakelite-to-metal and are, therefore, quite noiseless. A positive connection from the moving vanes is obtained by means of a screened pigtail which is non-inductive and which is insulated so that it cannot cause noise. The vanes are of brass soldered together, so that no variation of capacity takes place and the high frequency series resistance of the condenser is low. The condenser is one hole fixing and if mounted on metal panels, both sets of vanes are insulated from the panel. Each condenser covers the maximum tuning range for any given coil because the minimum capacity value is very small.



CAT. No. 942.

35 m.mfd. Code SICA	6/-	100 m.mfd. Code SICOT	7/-
60 m.mfd. Code SICO	6/6	150 m.mfd. Code SICUT	7/6

Fixed S.W. Air Dielectric Condenser

This small fixed condenser with brass vanes and air dielectric has a capacity of 12 m.mfd. It can be used for coupling the aerial to the grid circuit of short wave receivers or converters and can be used for padding purposes when condensers are ganged together or for superhet work. The value is one which has been found most suitable in practice.



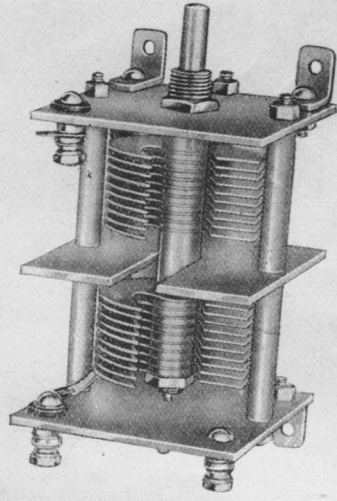
CAT. No. 929. Code ACSE

PRICE .. 1/-



Two and Three Gang Short Wave Variable Condensers

These condensers are designed expressly for short wave use and are supplied in two or three ganged sections of .00015 mfd., each section being screened by thick metal end and dividing plates. The condensers are rigid, will not come out of adjustment and are compact in size. They have a large tuning range due to small self-capacity of the sections when at zero adjustment.

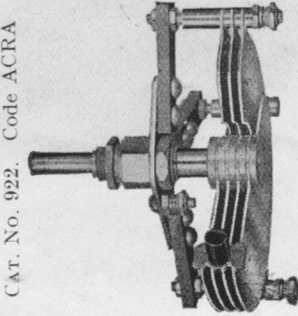


CAT. No. 973.	Code ACTE.	
2 gang 40 m.mfd. sections	PRICE	15/-
CAT. No. 967.	Code ACTO.	
2 gang .00015 sections	PRICE	17/6
CAT. No. 968.	Code ACTRI	
3 gang .00015 sections	PRICE	22/6

Short Wave Variable Condenser

FOR RECEPTION OR TRANSMISSION

CAT. No. 922. Code ACRA



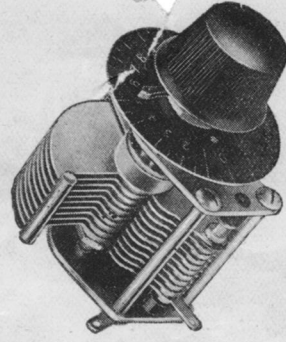
This condenser has been very carefully designed for short wave work and is suitable both for receiver, low power transmitter work and also for the frequency doubling stages of more powerful transmitters. The losses due to endplates and insulating materials have been reduced to a minimum and both moving and fixed vanes are soldered together to prevent variation of capacity and high series resistance. The condenser is made of brass with long hollow taper bearing and is quite noiseless in use. The vanes are well spaced and the condenser will stand very high voltages without breaking down.

Min. Cap. 2.5 m.mfd. Max. Cap. .00016 mfd. PRICE 8/6

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. 957. Complete with knob, pointer and engraved dial.
Code ERICA. .0002 mfd. PRICE 6/-
Code ERICO. .00025 mfd. PRICE 6/6



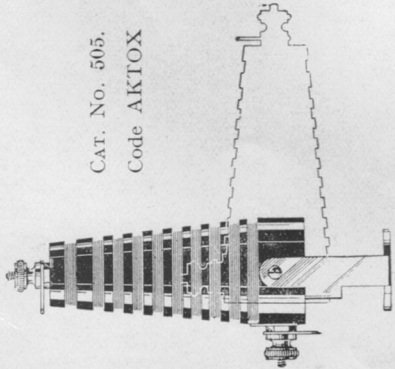
EDDYSTONE

Scientific All-Wave H.F. Choke

12-2000 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.mfd. 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 AKTOX

Open Vision Vernier Dial.

This is a precision made dial drive eminently suitable for all purposes where accuracy and smoothness of tuning is required. It has a slow motion ratio of 22-1 entirely free from slip or backlash. The 6" open vision bakelite escutcheon is travelled by a moving pointer and presents a very smart external appearance. The panel space required from the top of the escutcheon to the bottom of the large milled knob is 7".

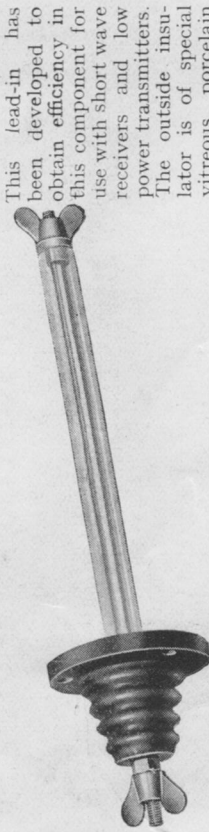
CAT. No. 970B. Black. Code ACDUS.

CAT. No. 970W. Walnut. Code ACDOS.

PRICE 10/6

Low Loss Aerial Lead-in.

FOR RECEIVERS AND TRANSMITTERS.



This lead-in has been developed to obtain efficiency in this component for use with short wave receivers and low power transmitters. The outside insulator is of special vitreous porcelain which will withstand the weather, and has a long leakage path between the metal connecting portion and earth. The tube itself is of 3/8" diameter, high tensile strength glass with special electrical qualities. The metal portion is polished and nickel plated and wing nuts are fitted at both ends for general convenience.

CAT. No. 946. Code EADIN. Length of glass tube behind insulator 5 3/4".

PRICE 2/6

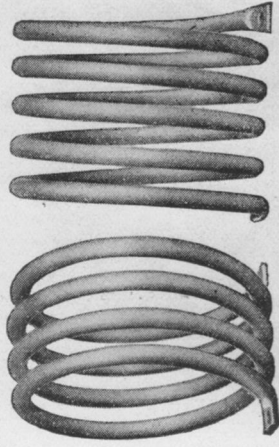
CAT. No. 972. Code EODIN. Length of glass tube behind insulator 11".

PRICE 3/6

EDDYSTONE

Transmitting Inductances

CAT. No. 514. Code ACAB.



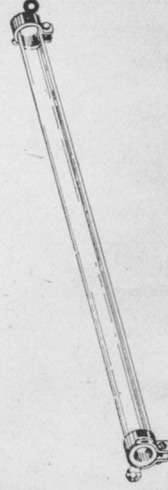
These inductances are ideal for small and medium power transmitters. They will carry up to 500 watts anode current dissipation without heating and give a very high degree of efficiency. They are wound from soft drawn 20 gauge copper and are supplied in 3/8" or 1/2" tube form. The coils after winding 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 3/8" outside diameter Copper Tube .. 5d. per turn
1/2" outside diameter Copper Tube .. 6d. per turn

Glass Feeder Spreaders

CAT. No. 515. Code ACEB

For spacing transmission feeders to a Hertz aerial.



This spreader consists of a 10" glass insulating tube, fitted at each end with a clip. This clip has two strong projecting tabs through which the wire is threaded. The tabs when slightly bent back grip the wire so that it is firmly held and the spreader cannot slip. Light and efficient for their purpose, they make the feeder system a neat and workmanlike job.

PRICE : 4/6 per set of five for 1/4 wave feeders.

Tapping Clip

FOR INDUCTANCES.



CAT. No. 516.

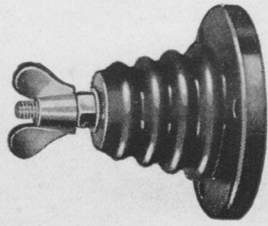
Code ACBA

This useful little clip, as shown, will clamp tightly and securely on 3/8" to 1/2" 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 inside aerial feeders, and, in fact, for all insulating purposes where high voltages have to be carried. It is made from special quality vitreous porcelain, glossy brown finish, with hollow centre and is supplied with fixing screw and wing nut, metal parts being nickel plated.

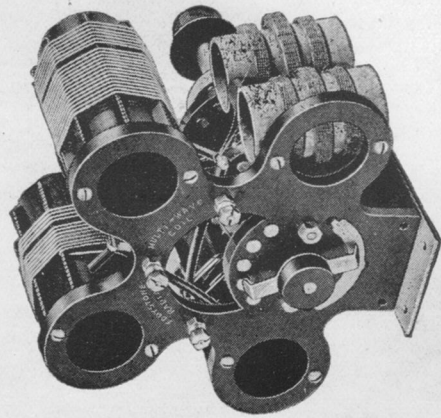


PRICE .. 1/-

CAT. No. 916. Code ACBE

Multi Wave Switched Coil Units

These units are intended for use in the design of all wave receivers. They are supplied with two or three separate windings which are independently switched over five wave-ranges. The switch is two or three way, according to the number of windings, and has five stud positions. The coils are mounted around the switch so that the leads from each coil to the switch contacts are very short. The short wave coils are the conventional "EDDYSTONE" pattern and the higher wave coils are honeycomb wound, mounted on paxolin formers. The switch gives a positive connection with wiping contact, the control knob comes out to the front of the panel and an engraved wave-range dial is supplied.



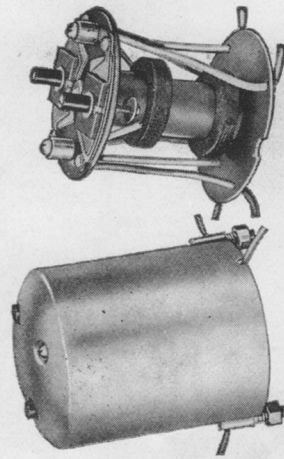
CAT. No. 960.	Code LUMIT.	PRICE
Multi wave coil unit, 3 windings, 5 wave-ranges, covering wavebands 12/27, 21/42, 33/68, 260/540, 1100/1900 metres		35/-
CAT. No. 961.	Code LUMAT.	PRICE
Multi wave coil unit, 3 windings, 5 wave-ranges, covering wavebands 12/27, 21/42, 33/68, 170/350, 310/700 metres		32/6
CAT. No. 962.	Code LUMOT.	PRICE
This unit is identical with No. 960 but is supplied with 2 windings only		27/6

The above wavelength ranges are taken with a .00015 mfd. condenser.

Intermediate Frequency Transformer.

110 K.C.

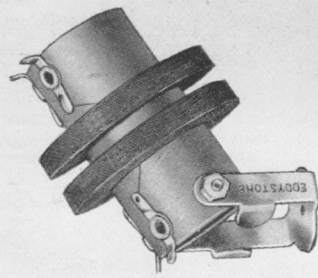
To obtain efficiency these coils are honeycomb wound on a paxolin former. The tuning condensers are made so that they will remain set at any fixed position. They are wound for an intermediate frequency of 110 K.C. and are adjusted to a band width of 7 kilocycles. The coils are impregnated for tropical use and heavy rubber lead-out wires are provided. These leads are arranged so that they can either be wired through a metal baseboard or brought out above it as necessary.



CAT. No. 965.	Code EXIF.	PRICE
4 leads at bottom		10/6

Quench Coil Unit

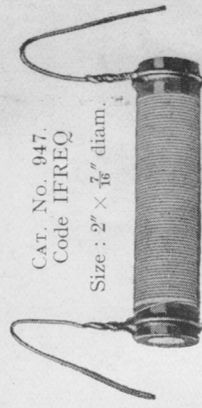
The use of a super-regenerative type of set for 5 metre reception is exceedingly popular, due to advantages which this type of circuit has for such work. The quench unit for this purpose is catered for by the "EDDYSTONE" component shown here, which comprises two honeycomb self-supporting coils wound $\frac{1}{8}$ " apart on a paxolin former, the whole being mounted on a metal stand which permits of vertical or horizontal mounting. The component is of attractive design and adds considerably to the appearance of the set.



CAT. No. 958. Code ENCHA PRICE **4/6**

5 Metre H.F. Choke

This choke is wound on a hollow former of Frequentite, the new material introduced by "EDDYSTONE," for high frequency work. The winding is double spaced and the choke is supplied with grid leak type wire ends so that it can be mounted directly into the wiring. It is suitable for all ultra short wave purposes. The natural peak wavelength is 38 metres.



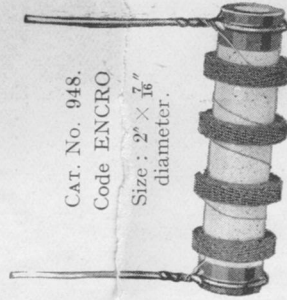
CAT. No. 947.
Code IFREQ
Size: $2" \times \frac{7}{16}"$ diam.

PRICE **1/8**

Short Wave H.F. Choke

This choke is also wound on a special Frequentite hollow former and consists of four small honeycomb coils spaced a considerable distance apart so that the total self-capacity of the component is very low. It is free from all resonant peaks on the wave-range covered and since it is of small size with a correspondingly small external field, it can be mounted in confined spaces. The component is supplied with grid leak type wire ends so that it can be mounted directly into the wiring.

PRICE **2/9**



CAT. No. 948.
Code ENCRO
Size: $2" \times \frac{1}{16}"$ diameter.

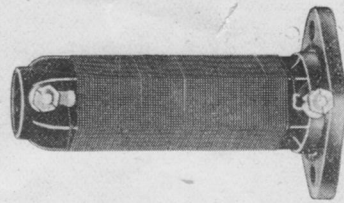
10-200 METRES.

Short Wave H.F. Choke

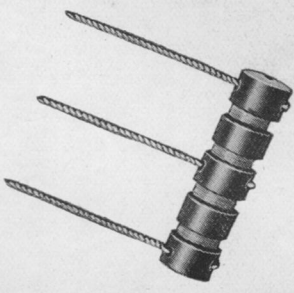
FOR RECEIVERS AND TRANSMITTERS.

This H.F. Choke is for use in short wave apparatus where the highest efficiency is required and where space is not a vital consideration. 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 $1\frac{1}{2}"$, giving small external field. The self-capacity is less than 1m.mfd.

CAT. No. 923. Code ACTIX	9-100 metres	PRICE
For receivers, crystal controlled stages of transmitters, small power transmitters.		2/6
Current carrying capacity up to 40 m/amps.		PRICE
CAT. No. 925. Code ACTOX		
For Transmitters. Current carrying capacity 200 m/amps. 10-180 metres		3/6



Tapped S.W. Detector Bias Resistor



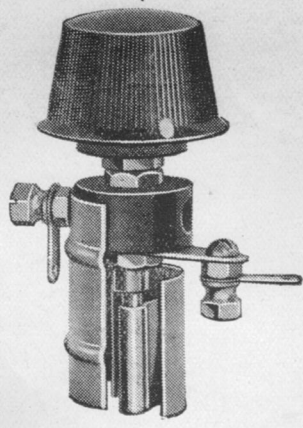
The grid leak of a short wave detector valve can be connected to this potentiometer giving either one-third or two-thirds positive bias, thus enabling the valve to be worked at its most efficient point and also giving smooth reaction control.

CAT. No. 938. Code ACAR
PRICE .. 1/6

Midget Variable Condenser

The "EDDYSTONE" Midget Variable Condenser is a neat component with one hole fixing. It is very suitable for coupling the aerial to the grid coil of a short wave receiver when slight variation will remove blind spots and it can also be used for general trimming purposes across a larger capacity.

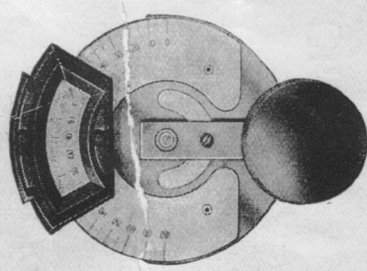
Max. capacity 8 m.mfd.
Min. capacity 1.5 m.mfd.
CAT. No. 502. Code ACSA
PRICE .. 2/9



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.

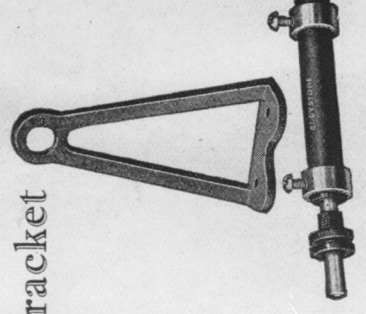
CAT. No. 933B Code ACDIS—black escutcheon and knob PRICE 7/6
CAT. No. 933W Code ACDAS—walnut escutcheon and knob PRICE 7/6



Extension Spindles & Bracket

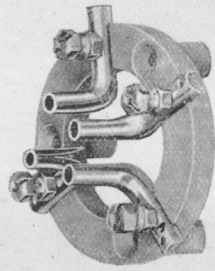
For extending the spindles of variable condensers, this outfit will be found very useful. The insulated rods are of ebomite with true holes at each end, fitted with nickel plated brass parts as shown. An insulated panel bush with fastening screw is also provided. The condenser mounting bracket is of cast aluminium, finished brown and is 3/8" high to centre of clamping hole.

CAT. No. 943. Code ATAC PRICE 1/6
3" Extension Spindle with bush .. 1/6
CAT. No. 944. Code ATEC PRICE 2/-
6" Extension Spindle with bush .. 2/-
CAT. No. 945. Code ACIC PRICE 1/-
Condenser Mounting Bracket .. 1/-



Special Short Wave Valve-holder

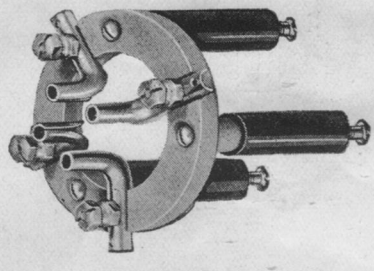
This valve-holder is of low loss construction and the insulating ring is made from Frequentite, the new material introduced by "EDDYSTONE". The power factor is far in advance, and the loss factor of this material much superior to all present insulators, and for high frequency work it is only excelled by fused Quartz. The holder is raised by small 3/8" pillars to reduce capacity effects if it is mounted on a metal baseboard. Each socket is made from one solid piece of metal, so that all chance of noise and bad contact through several pieces being joined together is obviated.



CAT. No. 949. Code EVIX PRICE: 4-pin .. 1/5
CAT. No. 950. Code EVOX PRICE: 5-pin .. 1/8

Ultra Short Wave Valve-holder

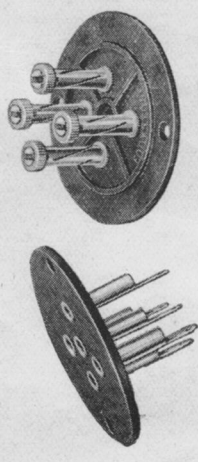
This holder is made from Frequentite and is similar to item No. 949 except that it is mounted on additional insulating pillars with fixing screws which raise it to a height of 1 1/2" from the baseboard. This is particularly desirable in ultra short wave receivers when short leads are necessary to the coils and condenser.



CAT. No. 951. Code ELTIC PRICE 4-pin 2/-
CAT. No. 952. Code ELTOX PRICE 5-pin 2/3

Short Wave Valve-holder for under Baseboard Wiring

This type of valve-holder, which is now exceedingly popular, is made from high quality bakelite and has the advantage that the underneath portion is ribbed and of special design so that the leakage path between the valve sockets is considerably increased. This is an important point since often flux or other dirt can cause a serious loss of efficiency due to leakage between the sockets. The holder is supplied in two types, with one piece valve sockets for soldered connections or with special sockets with screwed connection, when soldering is not desired.



CAT. No. 953. Code ETRAX PRICE 9d.
4-pin for soldered connections
CAT. No. 954. Code ETRIX PRICE 10d.
5-pin for soldered connections
CAT. No. 955. Code ETRUX PRICE 1/-
4-pin with terminal connections
CAT. No. 956. Code ETROX PRICE 1/2
5-pin with terminal connections

